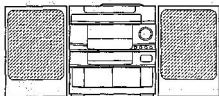


aiwa



Z-M260 Z-M2600



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM: 2ZM-3MK2 PR4N
- BASIC CD MECHANISM: 6ZG-1 DFNM

- TYPE: U(260), LH(2600)

REVISION PUBLISHING

CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
CX-ZM2600 (TYPE : LH)	SX-FZ2600	RC UNIT, 6AS01
CX-ZM260 (TYPE : U)	SX-Z26	

SERVICE MANUAL

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SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna	75 ohms (unbalanced)

<MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output	U: 100 watts per channel, Min. RMS at 6 ohms, from 50 Hz to 20 kHz, with no more than 1 % Total Harmonic Distortion. LH: 50 W + 50 W
--------------	--

Total Harmonic distortion

Inputs

Outputs

(6 ohms, T.H.D. 10 %, 1 kHz)
0.05 % (25 W, 1 kHz, 6 ohms DIN
AUDIO)
VIDEO/PHONO/AUX: 240mV
(adjustable)
MIC 1, MIC 2: 3.4 mV (20k ohms)
SUPER WOOFER: 2.2 V
SPEAKERS: accept speakers of
6 ohms or more
SURROUND SPEAKERS: accept
speakers of 16 ohms or more
PHONES (stereo jack): accepts
headphones of 32 ohm or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape: 50 Hz - 16000 Hz Normal tape: 50 Hz - 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO ₂ tape peak level, above 400 Hz)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback/erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-FZ2600>

Cabinet type	3 way, bass reflex with surround speaker
Speakers	Woofers: 220 mm cone type Tweeters: 80 mm cone type Super tweeter: 20 mm ceramic type Surround speaker: 80 mm cone type Front speaker: 6 ohms Surround speaker: 16 ohms
Impedance	89 dB/W/m
Output sound pressure level	260 x 444 x 275 mm
Dimensions (W x H x D)	5.3 kg
Weight	

<Speaker system SX-Z26>

Cabinet type	3 way, bass reflex
Speakers	Woofers: 220 mm cone type Tweeters: 80 mm cone type Super tweeter: 20 mm ceramic type 6 ohms
Impedance	90 dB/W/m
Output sound pressure level	260 x 444 x 270 mm
Dimensions (W x H x D)	(10 $\frac{1}{4}$ x 17 $\frac{1}{2}$ x 10 $\frac{1}{4}$ in.) 4.8 kg (10 lb 9 oz.)
Weight	

<General>

Power requirements	LH: 120 V/220 - 230 V/240 V AC, switchable 50/60Hz U: 120 V AC, 60Hz LH: 130W U: 115W
Power consumption	
Dimensions of main unit (W x H x D)	360 x 394.5 x 372.5 mm (14 $\frac{1}{4}$ x 15 $\frac{3}{4}$ x 14 $\frac{3}{4}$ in.)
Weight of main unit	LH: 9.1 kg U: 11.7 kg (25 lb 12 oz.)

- Design and specifications are subject to change without notice.
 - Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

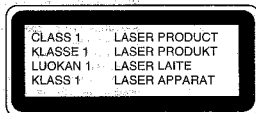
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

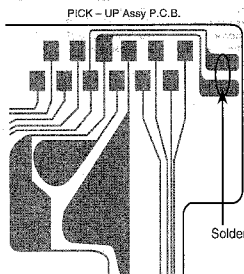


Precaution to replace Optical block

(KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST"

REF. NO.	PART NO.	KANAI NO.	DESCRIPTION	REF. NO.	PART NO.	KANAI NO.	DESCRIPTION
IC							
	86-MA5-601-010		IC, LC866440W-5B22		87-027-451-080		ZENER, HZ27-2L
	87-070-453-010		IC, SPS-442-1		87-002-608-080		DIODE, DSP10VC
	87-017-915-080		C-IC, R0409BCP		87-017-127-080		ZENER, HZ511C1
	87-A20-102-010		IC, STEK405-09BA-LH>		87-017-148-080		ZENER, HZ511C1
	87-A20-191-010		IC, STEK419-14BA-U>		87-017-079-049		ZENER, HZ54A3
					87-AA0-183-090		DIODE, RK36(F)<U>
	87-017-888-080		IC, MJM4558MD				
	87-070-121-010		IC, HA12185MT	MAIN C.B			
	87-A20-069-040		C-IC, BA3842F		C101	87-016-657-090	CAP, E 3300-71 SWS<U>
	87-001-874-010		IC, HA12134A		C102	87-016-657-090	CAP, E 3300-71 SWS<U>
	87-A20-107-010		IC, BA3836		C101	87-016-474-090	CAP, E 3300-50<L>U>
					C102	87-016-474-090	CAP, E 3300-50<L>U>
	87-017-804-010		IC, R04052BC		C104	87-010-235-080	CAP, E 470-16 SWE
	87-017-914-010		IC, R04094BC		C105	87-010-235-080	CAP, E 470-16 SWE
	87-070-127-110		IC, LC72131D		C106	87-010-409-089	CAP, E 220-50 SWE
	87-017-714-110		IC, LA1836L		C107	87-010-247-080	CAP, E 100-50 SWE
	87-070-294-010		IC, CXD2508AQ		C108	87-010-247-080	CAP, E 100-50 SWE
					C109	87-010-263-080	CAP, E 100-10 SWE
	87-017-745-010		IC, CXA1782BP				
	87-001-982-010		IC, TA7291S		C112	87-010-382-080	CAP, E 22-25 SWE
	87-070-305-010		IC, BA6897S		C113	87-010-403-080	CAP, E 3.3-50 SWE
	87-070-202-049		IC, TA2041P		C116	87-012-140-080	C-CAP, S 470P-50 J CH
	87-020-454-010		IC, DN6951		C121	87-012-368-080	C-CAP, S 0.1-50 Z F
					C122	87-012-368-080	C-CAP, S 0.1-50 Z F
TRANSISTOR							
	89-327-125-080		C-TR, 2SC2712GR		C123	87-018-209-080	CAP, TC U 0.1-50 Z F
	89-213-702-010		TR, 2SA1370E		C124	87-012-368-080	C-CAP, S 0.1-50 Z F
	87-026-235-080		C-TR, DTCL144X		C125	87-010-263-080	CAP, E 100-10SWE<U>
	87-026-210-080		C-TR, DTCL144X		C131	87-010-196-080	C-CAP, S 0.1-25 Z F<U>
	87-026-610-080		TR, KTC3198GR		C132	87-010-196-080	C-CAP, S 0.1-25 Z F<U>
	87-026-211-090		C-TR, DPA144X		C145	87-010-186-080	C-CAP, 4700P-50 K B<U>
	89-332-665-080		TR, 2SC1266GR		C146	87-010-186-080	C-CAP, 4700P-50 K B<U>
	89-337-221-380		C-TR, 2SC3722(R/S/E)		C152	87-010-260-080	CAP, E 47-25 SWE
	89-111-625-080		C-TR, 2SA1162GR		C171	87-016-565-090	CAP, E 4700-25 105 TKR
	87-026-226-080		C-TR, DPA143X		C172	87-016-565-090	CAP, E 4700-25 105 TKR<U>
	89-189-521-080		TR, 2SA952K		C173	87-010-196-080	C-CAP, S 0.1-25 Z F
	87-026-234-080		C-TR, DTCL139K		C174	87-010-196-080	C-CAP, S 0.1-25 Z F
	89-333-266-080		TR, 2SC1332B		C175	87-010-196-080	C-CAP, S 0.1-25 Z F
	87-026-609-080		TR, KTA1266GR		C176	87-015-785-080	C-CAP, S 0.1-25 Z F
	89-502-466-080		FET, 2SK246BL		C220	87-010-194-080	C-CAP, S 0.047-25 K F
	89-333-317-080		TR, 2SC3331T		C221	87-010-544-080	CAP, E 0.1-50M SWE
	89-112-965-080		TR, 2SA1296GR		C222	87-010-544-080	CAP, E 0.1-50M SWE
	87-A30-047-080		C-SCD655E		C223	87-010-187-080	C-CAP, S 5600P-50 K B
	89-113-187-080		TR, 2SA1318(T/U)		C224	87-010-187-080	C-CAP, S 5600P-50 K B
	87-026-238-080		C-TR, DTCL144X		C225	87-010-179-080	C-CAP, S 1200P-50 K B
	87-026-214-080		TR, DPA114YS		C226	87-010-179-080	C-CAP, S 1200P-50 K B
	89-327-143-080		C-TR, 2SC2714 (O)		C227	87-010-405-080	CAP, E 10-50 SWE
	89-109-705-060		TR, 2SA970GR<U>		C228	87-010-405-080	CAP, E 10-50 SWE
	89-110-155-080		TR, 2SA1015GR		C229	87-010-405-080	CAP, E 10-50 SWE
	89-505-434-560		C-FET, 2SK543 (4/5)		C230	87-010-405-080	CAP, E 10-50 SWE
	87-026-214-080		TR, 2SA933S (RS)		C231	87-010-147-080	C-CAP, S 3P-50 C CH GRM
	89-406-555-080		TR, 2SD655E		C232	87-018-098-080	CAP, TC U 3.3P-50 K SL DP050
	89-421-722-080		TR, 2SD2172 V/W		C233	87-010-196-080	C-CAP, S 0.1-25 Z F
	89-320-011-080		TR, 2SC2001K		C234	87-010-196-080	C-CAP, S 0.1-25 Z F
	87-026-239-080		TR, DTCL114YK		C235	87-010-196-080	C-CAP, S 0.1-25 Z F
	87-026-233-080		C-TR, DPA114YK		C236	87-010-196-080	C-CAP, S 0.1-25 Z F
	87-026-223-080		C-TR, DTCL43YK		C243	87-010-322-010	C-CAP, S 100P-50 J C H<U>
	87-026-608-080		C-TR, DTCL123YX		C244	87-010-322-010	C-CAP, S 100P-50 J C H<U>
					C250	87-A10-200-080	CAP, R 10-100 M SWE BP<U>
					C260	87-015-785-080	C-CAP, S 0.1-25 Z F
DIODE							
	87-A40-115-060		DIODE, RS603K<U>		C301	87-010-318-080	C-CAP, S 47P-50 J CH
	87-A40-116-060		DIODE, RS603L-B-D-51<LH>		C302	87-010-318-080	C-CAP, S 47P-50 J CH
	87-001-731-080		ZENER, HZ58C2L		C303	87-012-157-080	C-CAP, S 330P-50 J CH GRM
	87-017-091-080		ZENER, HZ85C1		C304	87-012-157-080	C-CAP, S 330P-50 J CH GRM
	87-020-465-080		DIODE, LS8133		C305	87-012-145-080	C-CAP, S 270P-50 J CH
	87-070-978-080		DIODE, 1N4003 SRM		C306	87-012-145-080	C-CAP, S 270P-50 J CH
	87-020-027-080		C-DIODE, 1N5184A		C307	87-010-196-080	C-CAP, S 0.1-25 Z F
	87-020-125-080		C-DIODE, 1N5181B		C311	87-010-198-080	C-CAP, S 0.022-25 K B
	87-017-437-080		DIODE, 1N4148M		C312	87-010-198-080	C-CAP, S 0.022-25 K B
	87-017-174-080		ZENER, HZ511A3L		C313	87-010-182-080	C-CAP, S 220P-50 K B<LH>
					C313	87-010-181-080	C-CAP, S 1800P-50 K B<U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C314	87-010-182-080		C-CAP,S 2200P-50 K B<LH>	C554	87-015-627-080		C-CAP,1000P-50 K B
C314	87-010-181-080		C-CAP,S 1800P-50 K B<U>	C557	87-010-178-080		C-CAP,S 1000P-50 K B
C315	87-010-180-089		C-CAP,S 1500P-50 K B<LH>	C558	87-010-178-080		C-CAP,S 1000P-50 K B
C315	87-010-179-089		C-CAP,S 1200P-50 K B<U>	C601	87-010-178-080		C-CAP,S 1000P-50 K B
C316	87-010-180-089		C-CAP,S 1500P-50 K B<LH>	C602	87-010-178-080		C-CAP,S 1000P-50 K B
C316	87-010-179-089		C-CAP,S 1200P-50 K B<U>	C641	87-010-196-080		C-CAP,S 0.1-25 Z F
C317	87-012-142-080		C-CAP,S 0.33-16 Z F	C642	87-010-196-080		C-CAP,S 0.1-25 Z F
C318	87-012-142-080		C-CAP,S 0.33-16 Z F	C701	87-010-381-080		CAP,E 330-16 SME
C319	87-012-141-080		C-CAP,S 0.22-16 Z F	C702	87-010-404-080		CAP,E 4.7-50 SME
C320	87-012-141-080		C-CAP,S 0.22-16 Z F	C703	87-010-197-080		C-CAP,S 0.01-25 K B
C321	87-010-196-080		C-CAP,S 0.1-25 Z F	C704	87-010-197-080		C-CAP,S 0.01-25 K B
C322	87-010-196-080		C-CAP,S 0.1-25 Z F	C711	87-010-263-080		CAP,E 100-10 SME
C324	87-010-260-080		CAP,E 47-25 SME	C712	87-010-196-080		C-CAP,S 0.1-25 Z F
C325	87-010-370-080		CAP,E 330-6.3 SME	C722	87-010-152-080		C-CAP,S 8P-50 D CH
C326	87-010-196-080		C-CAP,S 0.1-25 Z F	C723	87-010-178-080		C-CAP,S 1000P-50 K B
C330	87-010-401-080		CAP,E 1-50 SME	C725	87-010-178-080		C-CAP,S 1000P-50 K B
C332	87-015-785-080		C-CAP,S 0.1-25 Z F	C727	87-010-196-080		C-CAP,S 0.1-25 Z F
C335	87-010-805-080		C-CAP,S 1-16 Z F	C728	87-010-248-080		CAP,E 220-10 SME
C336	87-010-805-080		C-CAP,S 1-16 Z F	C735	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
C337	87-010-196-080		C-CAP,S 0.1-25 Z F	C770	87-010-405-080		CAP,E 10-50 SME
C338	87-010-196-080		C-CAP,S 0.1-25 Z F	C771	87-010-405-080		CAP,E 10-50 SME
C338	87-010-196-080		C-CAP,S 0.1-25 Z F	C772	87-010-196-080		C-CAP,S 0.047-25 K F
C340	87-015-785-080		C-CAP,S 0.1-25 Z F	C773	87-015-785-080		C-CAP,S 0.1-25 Z F
C351	87-012-154-080		C-CAP,S 150P-50 J CH	C774	87-010-263-080		CAP,E 100-10 SME
C352	87-012-154-080		C-CAP,S 150P-50 J CH	C775	87-010-405-080		CAP,E 10-50 SME
C451	87-012-140-080		C-CAP,S 470P-50 J CH	C776	87-010-197-080		C-CAP,S 0.01-25 K B
C452	87-012-140-080		C-CAP,S 470P-50 J CH	C777	87-010-400-080		CAP,E 0.47-50 SME
C453	87-010-178-080		C-CAP,S 1000P-50 K B	C778	87-010-401-080		CAP,E 1-50 SME
C454	87-010-956-080		C-CAP,S 0.068-25 K B<U>	C779	87-010-401-080		CAP,E 1-50 SME
C455	87-010-178-080		C-CAP,S 1000P-50 K B<U>	C780	87-010-197-080		C-CAP,S 0.01-25 K B
C456	87-010-260-080		CAP,E 47-25 SME	C781	87-010-405-080		CAP,E 10-50 SME
C457	87-010-197-080		C-CAP,S 0.01-25 K B	C782	87-010-405-080		CAP,E 10-50 SME
C458	87-010-183-080		C-CAP,S 2700P-50 K B	C785	87-010-197-080		C-CAP,S 0.01-25 K B
C459	87-010-183-080		C-CAP,S 2700P-50 K B	C786	87-010-197-080		C-CAP,S 0.01-25 K B
C460	87-010-183-080		C-CAP,S 2700P-50 K B	C787	87-010-164-080		C-CAP,S 3300P-50 K B
C470	87-010-196-080		C-CAP,S 0.1-25 Z F	C788	87-010-184-080		C-CAP,S 3300P-50 K B
C501	87-010-179-080		C-CAP,S 1200P-50 K B	C789	87-015-826-080		C-CAP,1200P-50 K B
C502	87-010-179-080		C-CAP,S 1200P-50 K B	C790	87-010-179-080		C-CAP,S 1200P-50 K B
C503	87-012-155-080		C-CAP,S 180P-50 J CH	C791	87-010-401-080		CAP,E 1-50 SME
C504	87-012-155-080		C-CAP,S 180P-50 J CH	C792	87-010-180-080		C-CAP,S 1500P-50 K B
C515	87-010-545-080		CAP,E 0.22-50 SME	C793	87-010-189-080		C-CAP,S 8200P-50 K B
C516	87-010-545-080		CAP,E 0.22-50 SME	C794	87-010-408-080		CAP,E 47-50 SME
C519	87-015-785-080		C-CAP,S 0.1-25 Z F	C795	87-010-194-080		C-CAP,S 0.047-25 K F
C521	87-010-197-080		C-CAP,S 0.01-25 K B	C796	87-010-403-080		CAP,E 1-50 SME
C522	87-010-318-080		C-CAP,S 47P-50 J CH	C802	87-010-197-080		C-CAP,S 0.01-25 K B
C523	87-010-197-080		C-CAP,S 0.01-25 K B	C803	87-018-134-089		CAP,TC U 0.01-16 N Y
C524	87-010-402-080		CAP,E 2.2-50 SME	C814	87-010-196-080		C-CAP,S 0.1-25 Z F
C525	87-010-184-080		C-CAP,S 3300P-50 K B	C815	87-018-134-080		CAP,TC U 0.01-16 N Y
C526	87-010-196-080		C-CAP,S 0.1-25 Z F	C819	87-010-197-080		C-CAP,S 0.01-25 K B
C527	87-010-401-080		CAP,E 1-50 SME	C820	87-010-408-080		CAP,E 47-50 SME
C528	87-010-401-080		CAP,E 1-50 SME	C821	87-010-197-080		C-CAP,S 0.01-25 K B
C529	87-010-384-080		CAP,E 100-25 SME	C823	87-010-197-080		C-CAP,S 0.01-25 K B
C530	87-010-197-080		C-CAP,S 0.01-25 K B	C828	87-010-197-080		C-CAP,S 0.01-25 K B
C531	87-010-183-080		C-CAP,S 2700P-50 K B	C829	87-010-197-080		C-CAP,S 0.01-25 K B
C532	87-010-194-080		C-CAP,S 0.047-25 K F	C830	87-015-819-080		C-CAP,0.01-50 K B
C533	87-010-197-080		C-CAP,S 0.01-25 K B	C835	87-010-197-080		C-CAP,S 0.01-25 K B
C534	87-010-263-080		CAP,E 100-10 SME	C903	87-018-119-080		CAP,TC U 100P-50 K B UP050
C535	87-010-402-080		CAP,E 1-50 SME	C946	87-010-401-080		CAP,E 1-50 SME
C536	87-010-401-080		CAP,E 1-50 SME	C960	87-010-196-080		C-CAP,S 0.1-25 Z F
C537	87-010-545-080		CAP,E 0.22-50 SME	C961	87-010-152-080		C-CAP,S 8P-50 D CH
C540	87-010-196-080		C-CAP,S 0.1-25 Z F	C987	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
C541	87-010-196-080		C-CAP,S 0.1-25 Z F	C990	87-010-197-080		C-CAP,S 0.01-25 K B
C542	87-010-405-080		CAP,E 10-50 SME	C993	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
C543	87-010-546-080		CAP,E 0.33-50 SME	C995	87-010-197-080		C-CAP,S 0.01-25 K B
C544	87-010-546-080		CAP,E 0.33-50 SME	C999	87-010-196-080		C-CAP,S 0.1-25 Z F
C545	87-010-400-080		CAP,E 0.47-50 SME	CF801	87-008-261-010		FLTR,IF SFE10.7MA5A
C546	87-010-400-080		CAP,E 0.47-50 SME	CF802	87-008-261-010		FLTR,IF SFE10.7MA5A
C547	87-015-822-080		C-CAP,0.022-25 Z F	FE803	86-NP4-670-010		FE PACK 25K-N
C548	87-015-822-080		C-CAP,0.022-25 Z F	J252	87-A60-024-010		JACK,DIAG.3BLK
C553	87-015-627-080		C-CAP,1000P-50 K B	J253	87-099-802-010		JACK,PIN 3P BRW

REF NO.	PART NO.	KANRI NO.	DESCRIPTION	PART NO.	KANRI NO.	DESCRIPTION
J254	87-033-240-010		TERMINAL HSP-324V-05	C408	87-010-182-080	C-CAP, S 2200P-50 K B
J652	87-099-741-010		JACK, PIN 2P JT	C409	87-010-993-080	C-CAP, S 0.056-25 J B
J801	87-033-239-010		TERMINAL HSP-154V-2	C410	87-016-460-080	C-CAP, S 0.22-16 K B
L101	87-003-383-010		COIL, 1UH K-U	C411	87-010-196-080	C-CAP, S 0.1-25 Z F
L102	87-003-383-010		COIL, 1UH K-U	C412	87-016-460-080	C-CAP, S 0.22-16 K B
L403	87-007-341-010		COIL, TRAP 85KHZ	C413	87-010-993-080	C-CAP, S 0.056-25 J B
L404	87-007-341-010		COIL, TRAP 85KHZ	C414	87-010-060-080	CAP, E 100-16 7L SRA
L451	87-007-342-010		COIL, OSC 85KHZ BIAS	C421	87-015-695-040	CAP, E 1-50 7L SRA
L701	87-003-293-010		COIL, TRAP MPX	C422	87-015-695-040	CAP, E 1-50 7L SRA
L702	87-003-293-010		COIL, TRAP MPX	C431	87-010-196-080	C-CAP, S 0.1-25 Z F
L741	87-050-015-010		COIL, FM DRY (TOR)	C432	87-010-196-080	C-CAP, S 0.1-25 Z F
L742	87-090-051-010		FLTR, CAP-450 (TOR)	C553	87-018-199-080	CAP, TC-U 3300P-16 N X
L770	87-003-102-080		COIL, 100H K LAL2	C554	87-018-199-080	CAP, TC-U 3300P-16 N X
L790	87-003-231-080		COIL, 2125 1UH K	C555	87-018-196-080	CAP, TC-U 1500P-16 N X
L832	87-005-847-080		COIL, 2.2UH K CBES	C556	87-016-044-040	CAP, E 100-16 5L
L981	86-MF4-668-010		COIL, AM PACK 2(TOM)	C557	87-010-497-040	CAP, E 4.7-35 5L
PRN351	87-099-832-010		CONN, 8P V S2M-8W	C558	87-010-497-040	CAP, E 4.7-35 5L
PR112	87-026-689-080		PROTECTOR, 1A 491SERIES 60V<49V	C559	87-010-550-040	CAP, E 100-6.3 5L
R105	87-022-600-080		RES, M/F 0.1-2M J	C560	87-018-134-080	CAP, TC-U 0.01-16 N Y
R106	87-022-600-080		RES, M/F 0.1-2M J	C561	87-018-134-080	CAP, TC-U 0.01-16 N Y
R251	87-A00-117-080		RES, 330-1/2W<U>	C562	87-010-193-080	C-CAP, S 0.033-25KF
R252	87-A00-117-080		RES, 330-1/2W<U>	C563	87-010-198-080	C-CAP, S 0.022-25KB
R253	87-A00-117-080		RES, 330-1/2W<U>	C588	87-018-196-080	CAP, TC-U 1500P-16 N X
R254	87-A00-117-080		RES, 330-1/2W<U>	C589	87-018-196-080	CAP, TC-U 1500P-16 N X
RV101	87-045-389-010		RELAY, 12V OSA-SS-212DM5	C590	87-018-199-080	CAP, TC-U 3300P-16 N X
RV102	87-045-382-010		RELAY, 12V QUAD-SH-112L	C591	87-018-199-080	CAP, TC-U 3300P-16 N X
SFR301	87-024-174-080		SFR, 33K H RH0638C	C600	87-010-545-080	CAP, E 0.22-50 SME
SFR302	87-024-174-080		SFR, 33K H RH0638C	C601	87-010-321-080	C-CAP, S 82P-50 J CH
SFR303	87-024-174-080		SFR, 33K H RH0638C	C602	87-010-196-080	C-CAP, S 0.1-25 Z F
SFR304	87-024-174-080		SFR, 33K H RH0638C	C606	87-010-177-080	C-CAP, S 820P-50 J SL
SFR305	87-024-175-080		SFR, 47K H RH0638C	C615	87-010-805-080	C-CAP, S 1-16 Z F
SFR306	87-024-174-080		SFR, 33K H RH0638C	C620	87-015-681-040	CAP, E 10-16 7L SRA
SFR451	87-024-175-080		SFR, 47K H RH0638C	C630	87-010-248-080	CAP, E 220-10 SME
SFR452	87-024-175-080		SFR, 47K H RH0638C	FL101	86-MA5-602-010	FL, 5MA-5 25U391047A
SFR721	87-024-171-080		SFR, 4.7K H RH0638C	J601	87-099-659-010	JACK, 6.3 0
TC701	87-011-253-080		TRIMMER, CRK 30P	J602	87-099-659-010	JACK, 6.3 0
VW651	84-WF5-642-010		VIB, 50KHZ C4K142A	L201	87-A50-053-010	COIL, CLOCK 5.76MHZ TL
X703	84-508-618-010		VIB, CSA CSD 456 F15	LED201	87-017-785-080	LED, SEL14214S RED
X721	87-030-372-010		VIB, XTAL 7.200MHZ CSA-309	LED202	87-017-785-080	LED, SEL14214S RED
W101	85-WF5-628-010		F-CABLE, TP-2.5	LED203	87-017-785-080	LED, SEL14214S RED
W604	88-906-271-110		FF-CABLE, 6P-1.25	LED204	87-017-785-080	LED, SEL14214S RED
				LED205	87-017-731-080	LED, SEL1510CM2 PGRN
				LED206	87-017-731-080	LED, SEL1510CM2 PGRN
				LED207	87-017-731-080	LED, SEL1510CM2 PGRN
				LED208	87-017-731-080	LED, SEL1510CM2 PGRN
				LED209	87-017-731-080	LED, SEL1510CM2 PGRN
				LED210	87-017-731-080	LED, SEL1510CM2 PGRN
				LED211	87-017-731-080	LED, SEL1510CM2 PGRN
				LED212	87-017-731-080	LED, SEL1510CM2 PGRN
				LED213	87-070-270-010	LED, SEL1510CM2-LF34 P-GRN
				LED214	87-070-270-010	LED, SEL1510CM2-LF34 P-GRN
				LED215	87-070-270-010	LED, SEL1510CM2-LF34 P-GRN
				LED216	87-070-270-010	LED, SEL1510CM2-LF34 P-GRN
				LED217	87-070-300-010	LED, SEL1250SM LF34 RED
				LED218	87-070-300-010	LED, SEL1250SM LF34 RED
				LED219	87-017-731-080	LED, SEL1510CM2 PGRN
				LED220	87-017-731-080	LED, SEL1510CM2 PGRN
				LED221	87-017-731-080	LED, SEL1510CM2 PGRN
				LED222	87-017-731-080	LED, SEL1510CM2 PGRN
				LED223	87-017-731-080	LED, SEL1510CM2 PGRN
				LED224	87-017-731-080	LED, SEL1510CM2 PGRN
				LED225	87-017-785-080	LED, SEL14214S RED
				LED226	87-017-785-080	C-RES, 14214S XED P
				LED227	87-017-785-080	LED, SEL14214S RED
				LED228	87-017-785-080	LED, SEL14214S RED
				LED229	87-017-785-080	LED, SEL14214S RED
				MVR501	83-WF4-635-010	VOL, 50 K B X 2 (M)
				R301	87-022-355-080	C-RES, 10K-1/10W F
				R310	87-022-355-080	C-RES, 10K-1/10W F
				R319	87-025-424-080	RES, M/F 10K-1/10W F
C201	87-010-553-040		CAP, E 47-16 5L SRE			
C102	87-010-805-080		C-CAP, S 1-16 Z F			
C103	87-010-553-040		CAP, E 47-16 5L SRE			
C104	87-010-196-080		C-CAP, S 0.1-25 Z F			
C105	87-015-695-040		CAP, E 1-50 7L SRA			
C106	87-010-196-080		C-CAP, S 0.1-25 Z F			
C107	87-010-805-080		C-CAP, S 1-16 Z F			
C108	87-010-178-080		C-CAP, S 1000P-50 K B			
C109	87-018-131-080		CAP, TC U 1000P-50 K B UP050			
C110	87-010-154-080		C-CAP, S 10P-50 D CH			
C111	87-012-156-080		C-CAP, S 220P-50 J CH GRM			
C112	87-010-178-080		C-CAP, S 1000P-50 K B			
C113	87-010-408-080		CAP, E 47-50 SME			
C181	87-012-140-080		C-CAP, S 470P-50 J CH			
C182	87-012-140-080		C-CAP, S 470P-50 J CH			
C220	87-015-696-040		CAP, E 2.2-50 7L SRA			
C221	87-015-696-040		CAP, E 2.2-50 7L SRA			
C231	87-010-805-080		C-CAP, S 1-16 Z F			
C252	87-018-209-080		CAP, TC U 0.1-50 Z F UP050			
C401	87-010-553-040		CAP, E 47-16 5L SRE			
C402	87-010-196-080		C-CAP, S 0.1-25 Z F			
C403	87-010-182-080		C-CAP, S 2200P-50 K B			
C404	87-016-460-080		C-CAP, S 0.22-16 K B			
C405	87-015-681-040		CAP, E 10-16 7L SRA			
C406	87-015-691-040		CAP, E 0.1-50 7L SRA			
C407	87-016-460-080		C-CAP, S 0.22-16 K B			

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R503	87-029-060-090		RES, FUSE 33-1/4W J
S301	87-036-215-080		SW, TACT EVQ 21404M
S302	87-036-215-080		SW, TACT EVQ 21404M
S303	87-036-215-080		SW, TACT EVQ 21404M
S304	87-036-215-080		SW, TACT EVQ 21404M

S305	87-036-215-080		SW, TACT EVQ 21404M
S306	87-036-215-080		SW, TACT EVQ 21404M
S307	87-036-215-080		SW, TACT EVQ 21404M
S308	87-036-215-080		SW, TACT EVQ 21404M
S309	87-036-215-080		SW, TACT EVQ 21404M

S310	87-036-215-080		SW, TACT EVQ 21404M
S311	87-036-215-080		SW, TACT EVQ 21404M
S312	87-036-215-080		SW, TACT EVQ 21404M
S313	87-036-215-080		SW, TACT EVQ 21404M
S314	87-036-215-080		SW, TACT EVQ 21404M

S315	87-036-215-080		SW, TACT EVQ 21404M
S316	87-036-215-080		SW, TACT EVQ 21404M
S317	87-036-215-080		SW, TACT EVQ 21404M
S318	87-036-215-080		SW, TACT EVQ 21404M
S319	87-A90-095-080		SW, TACT EVQ 11G04M

S320	87-A90-095-080		SW, TACT EVQ 11G04M
S321	87-A90-095-080		SW, TACT EVQ 11G04M
S322	87-A90-095-080		SW, TACT EVQ 11G04M
S323	87-A90-095-080		SW, TACT EVQ 11G04M
S325	87-036-215-080		SW, TACT EVQ 21404M

S326	87-036-215-080		SW, TACT EVQ 21404M
VR601	86-HA5-604-010		VR, RTVY 10XAX1
W104	88-514-251-110		FF-CABLE, 14P-1.25
W502	88-515-301-210		FF-CABLE, 15P-1.25

CD-KEY C.B

S327	87-036-215-080		SW, TACT EVQ 21404M
S328	87-036-215-080		SW, TACT EVQ 21404M
S329	87-036-215-080		SW, TACT EVQ 21404M
S330	87-036-215-080		SW, TACT EVQ 21404M
S331	87-036-215-080		SW, TACT EVQ 21404M

S332	87-036-215-080		SW, TACT EVQ 21404M
S333	87-036-215-080		SW, TACT EVQ 21404M

CD MAIN C.B

C11	86-201-605-019		CABLE, FCC 16P
C12	86-201-608-019		CABLE, FCC 8P
C13	87-010-182-089		C-CAP, S 2200P-50 B
C14	87-016-081-089		C-CAP, S 0.1-16 RK
C15	87-016-081-089		C-CAP, S 0.1-16 RK
C16	87-016-081-089		C-CAP, S 0.1-16 RK
C17	87-010-197-089		C-CAP, S 0.01-25 B
C18	87-010-402-049		CAP, E 2.2-50 SME

C19	87-010-382-049		CAP, E 22-25 SME
C20	87-010-213-089		C-CAP, S 0.015-25 B
C21	87-010-197-089		C-CAP, S 0.01-25 B
C22	87-010-263-049		CAP, E 100-10 SME
C23	87-010-197-089		C-CAP, S 0.01-25 B

C24	87-016-369-089		C-CAP, S 0.033-25 B K
C25	87-010-197-089		C-CAP, S 0.01-25 B
C26	87-016-369-089		C-CAP, S 0.033-25 B K
C27	87-010-197-089		C-CAP, S 0.01-25 B
C29	87-010-154-089		C-CAP, S 10P-50 D CH

C30	87-010-263-049		CAP, E 100-10 SME
C31	87-010-178-089		C-CAP, S 1000P-50 B
C32	87-010-198-089		C-CAP, S 0.022-25 B
C33	87-016-081-089		C-CAP, S 0.1-16 RK
C34	87-010-197-089		C-CAP, S 0.01-25 B

C35	87-010-263-049		CAP, E 100-10 SME
C36	87-015-677-049		CAP, E 100-6.3 7L
C37	87-010-197-089		C-CAP, S 0.01-25 B
C38	87-010-350-089		CAP, E 47-25 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C39	87-010-196-089		C-CAP, S 0.1-25 F
C91	87-010-263-049		CAP, E 100-10 SME
C101	87-010-596-089		C-CAP, S 0.047-16 RK
C102	87-010-188-089		C-CAP, S 6800P-50 B
C103	87-018-132-089		CAP, TC-U 2200P-16 X

C104	87-012-156-089		C-CAP, S 220P-50 CH
C105	87-010-404-049		CAP, E 4.7-50 SME
C106	87-010-263-049		CAP, E 100-10 SME
C107	87-010-197-089		C-CAP, S 0.01-25 B
C108	87-016-526-089		C-CAP, S 0.47-16 RK

C109	87-010-197-089		C-CAP, S 0.01-25 B
C112	87-010-318-089		C-CAP, S 47P-50 CH
C113	87-010-263-089		CAP, E 100-10 SME SX11
C114	87-010-197-089		C-CAP, S 0.01-25 B
C115	87-010-318-089		C-CAP, S 47P-50 CH

C116	87-010-318-089		C-CAP, S 47P-50 CH
C117	87-010-197-089		C-CAP, S 0.01-25 B
C122	87-010-186-089		C-CAP, S 4700P-50 B
C123	87-010-382-049		CAP, E 22-25 SME
C201	87-010-318-089		C-CAP, S 47P-50 CH

C202	87-010-318-089		C-CAP, S 47P-50 CH
C203	87-010-321-089		C-CAP, S 82P-50 CH
C204	87-010-321-089		C-CAP, S 82P-50 CH
C205	87-010-321-089		C-CAP, S 82P-50 CH
C206	87-010-321-089		C-CAP, S 82P-50 CH

C207	87-012-153-089		C-CAP, S 120P-50 CH
C208	87-012-153-089		C-CAP, S 120P-50 CH
C209	87-012-153-089		C-CAP, S 120P-50 CH
C210	87-012-153-089		C-CAP, S 120P-50 CH
C211	87-010-403-049		CAP, E 3.3-50 SME

C212	87-010-403-089		CAP, E 3.3-50 SME
C213	87-010-186-089		C-CAP, S 4700P-50 B
C214	87-010-186-089		C-CAP, S 4700P-50 B
C231	87-016-251-049		CAP, E 220-16 SMG
C232	87-010-263-089		CAP, E 100-10 SME SX11

C301	87-010-196-089		C-CAP, S 0.1-25 F
C302	87-010-260-089		CAP, E 47-25 SME
C401	87-010-403-089		CAP, E 3.3-50 SME
C402	87-010-403-049		CAP, E 3.3-50 SME
C501	87-016-459-049		CAP, E 470-10 SMG

C502	87-010-197-089		C-CAP, S 0.01-25 B
C503	87-010-263-049		CAP, E 100-10 SME
C504	87-010-196-089		C-CAP, S 0.1-25 F
C505	87-010-196-089		C-CAP, S 0.1-25 F
C506	87-010-196-089		C-CAP, S 0.1-25 F

C507	87-010-196-089		C-CAP, S 0.1-25 F
C508	87-016-459-049		CAP, E 470-10 SMG
C509	87-010-196-089		C-CAP, S 0.1-25 F
C510	87-010-196-089		C-CAP, S 0.1-25 F
C601	87-010-196-089		C-CAP, S 0.1-25 F

C602	87-016-251-049		CAP, E 220-16 SMG
C603	87-010-196-089		C-CAP, S 0.1-25 F
C701	87-010-322-089		C-CAP, S 100P-50 CH
C702	87-010-318-089		C-CAP, S 47P-50 CH
C703	87-010-318-089		C-CAP, S 47P-50 CH

C705	87-010-178-089		C-CAP, S 1000P-50 B
C901	87-010-260-049		CAP, E 47-25 SME
C902	87-010-196-089		C-CAP, S 0.1-25 F
L11	87-003-102-089		COIL, 10UH K LA02
LED901	87-A40-123-019		LED, SZ2-8128A-01-B

M601	87-045-305-019		MOTOR, RF-500TB
R36	87-022-365-089		C-RES, S 100K-1/10W F
R37	87-022-363-089		C-RES, S 68K-1/10W F
R38	87-022-363-089		C-RES, S 68K-1/10W F
R39	87-022-363-089		C-RES, S 68K-1/10W F

R40	87-022-363-089		C-RES, S 68K-1/10W F
R41	87-022-365-089		C-RES, S 100K-1/10W F
SFR11	87-024-175-089		SPR, 47K DIAGV
SFR12	87-024-176-089		SPR, 100K DIAGV
SFR13	87-024-176-089		SPR, 100K DIAGV

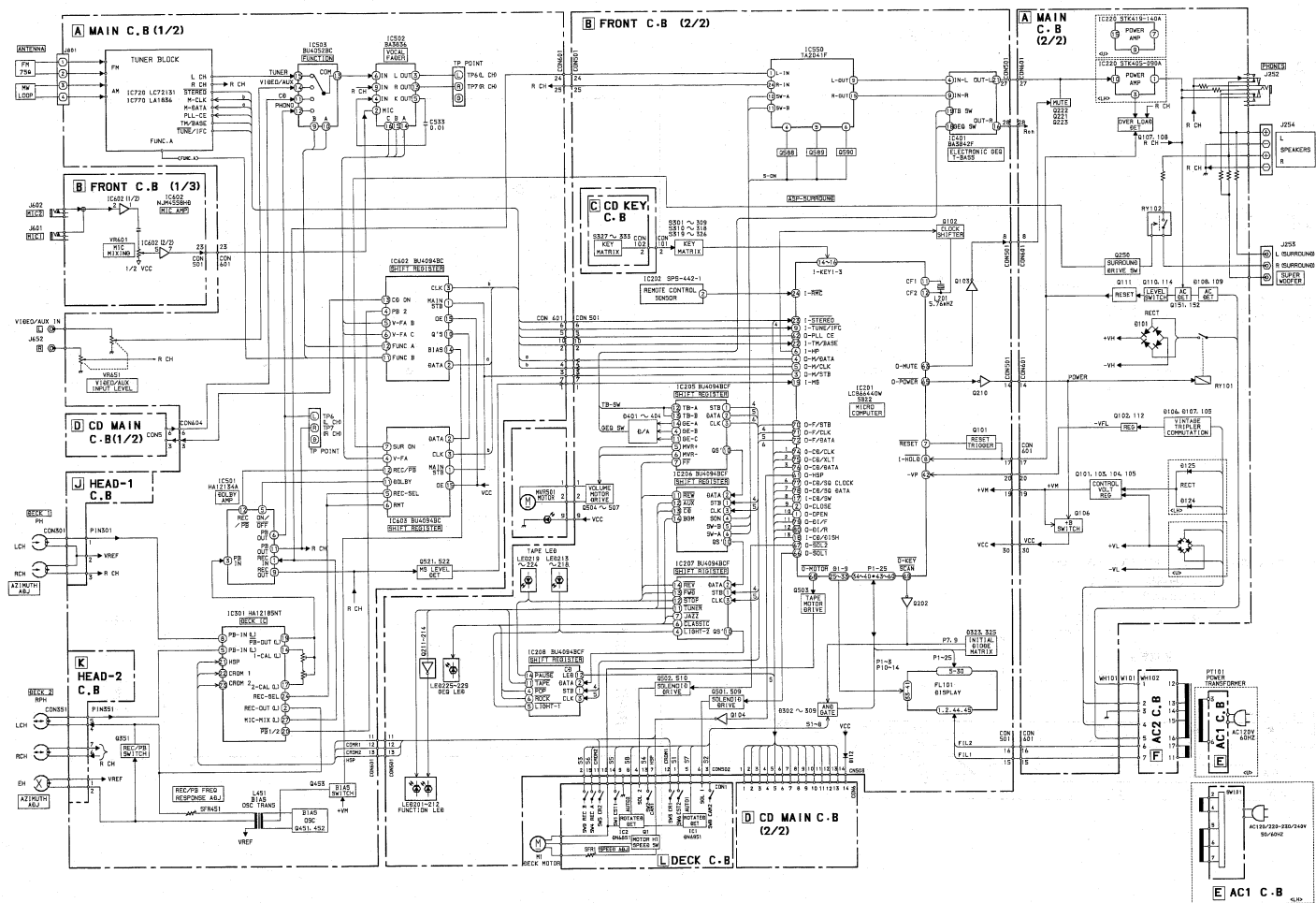
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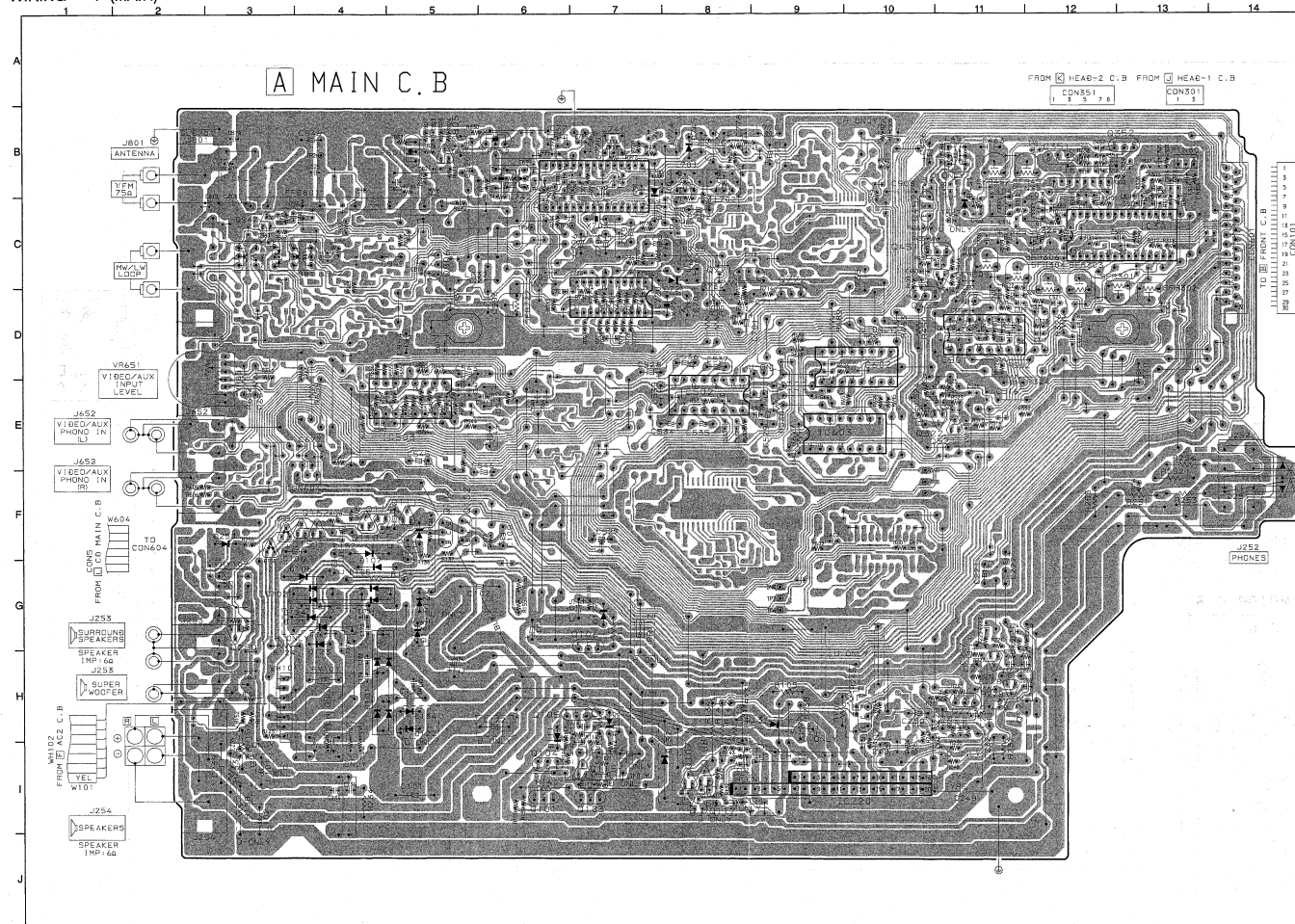
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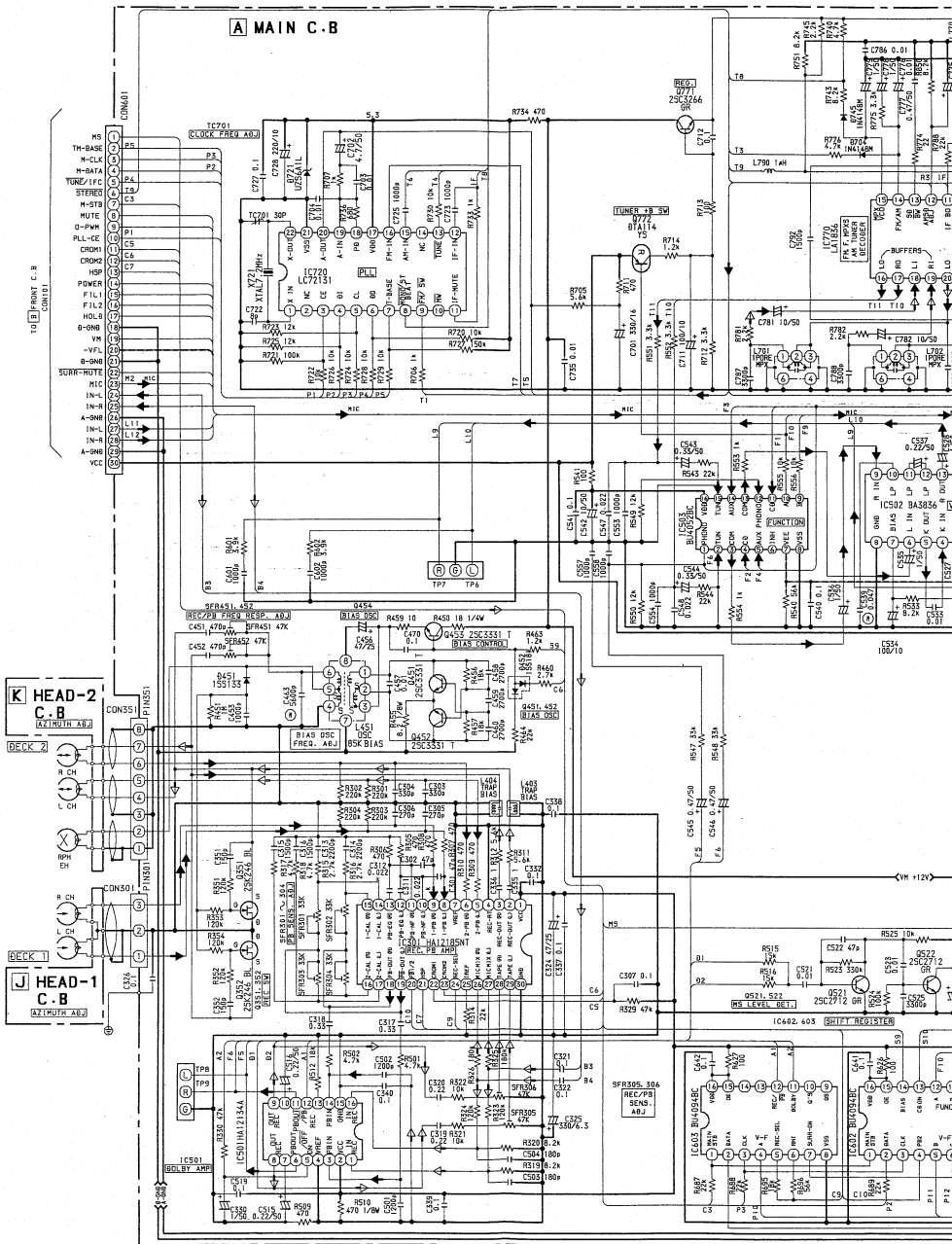
チップ抵抗
Chip resistor

9

BLOCK DIAGRAM – 2 (MAIN / FRONT)

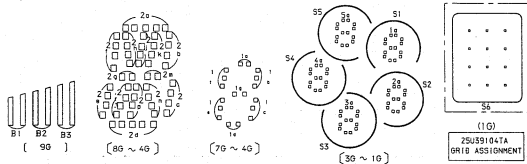
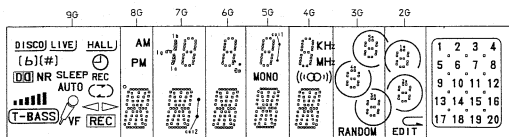






FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	T-BASS	2d	2d	2d	2d	2d	RANDOM	20	
P2		2j, 2p	2j, 2p	2j, 2p	2j, 2p	2j, 2p	S3	19	
P3	B1	2n	2n	2n	2n	2n	3a, 3b	18	
P4	B2	2r	2r	2r	2r	2r	3e EDIT	17	
P5	B3	2c	2c	2c	2c	2c	3c	16	
P6	AUTO	2e	2e	2e	2e	2e	3g	15	
P7		2m	2m	2m	2m	2m	3f	14	
P8	SLEEP	2g	2g	2g	2g	2g	3b	13	
P9	{ } (b)	2f	2f	2f	2f	2f	4a, 4b 2a, 2b	12	
P10	{ } (#)	2b	2b	2b	2b	2b	4e 2e	11	
P11	b #	2k	2k	2k	2k	2k	4c 2c	10	
P12		2h	2h	2h	2h	2h	4g 2g	9	
P13		2a	2a	2a	2a	2a	4f 2f	8	
P14					MONO		4b 2b	7	
P15	)	g	-	col (F)	(((((		1e, 1d	6	
P16	REC	b, c	0p	col (L)	MHz		1e	5	
P17		-	-	-	KHz		1c	4	
P18	REC	PM	1d	1d	1d	1d	S4 S2		
P19		-	1e	1e	1e	1e	5a, 5b 1g	3	
P20		-	1c	1c	1c	1c	5e 1f	2	
P21	(LIVE)	AM	1g	1g	1g	1g		1	
P22	(HALL)		1f	1f	1f	1f	5g 1b S6		
P23	DISCO LIVE HALL		1b	1b	1b	1b	5f S1		
P24	-	-	1a	1a	1a	1a	5b	-	
P25	-	-	-	-	-	-	S5	-	

TRANSISTOR ILLUSTRATION



2SC3266GR
KTA1266GR
KTC3198GR
2SA1296GR
2SD2172 V/W



DTA114YS
2SA933S(RS)



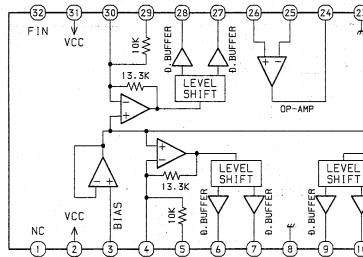
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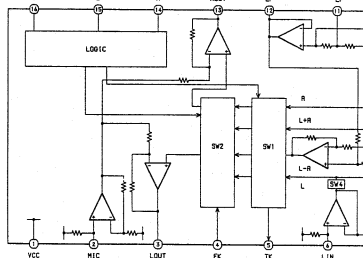
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IC BLOCK DIAGRAM - 1

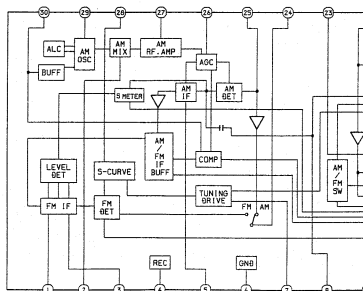
IC, BA6897S



IC, BA3836



IC, LA1836L



GR
GR
GR
V/V

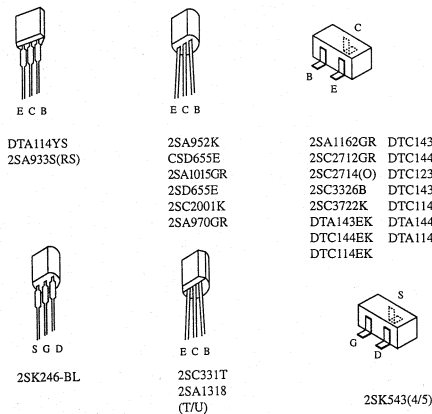
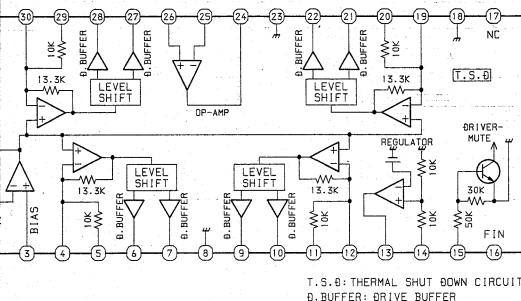
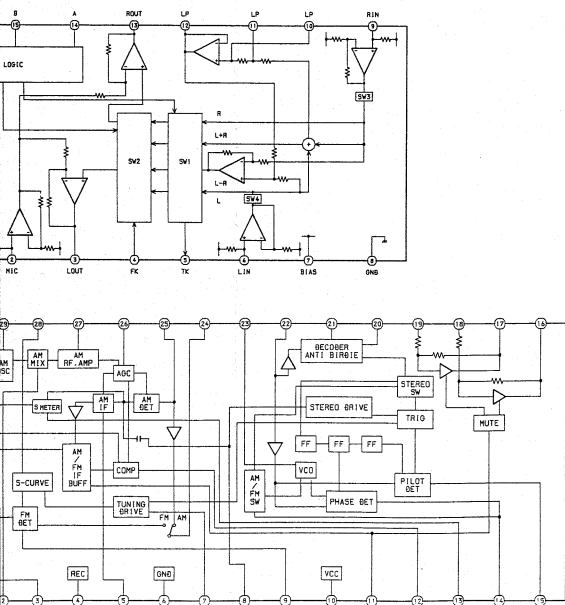
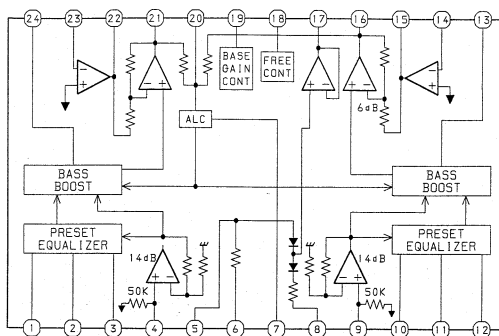


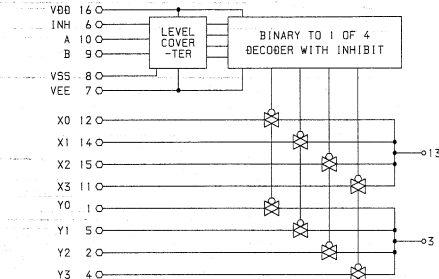
DIAGRAM - 1



IC, BA3842F

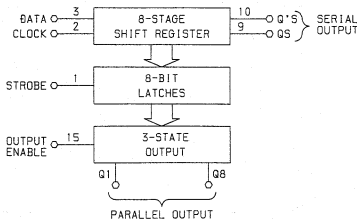


IC, BU4052BC

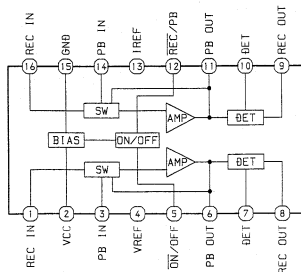


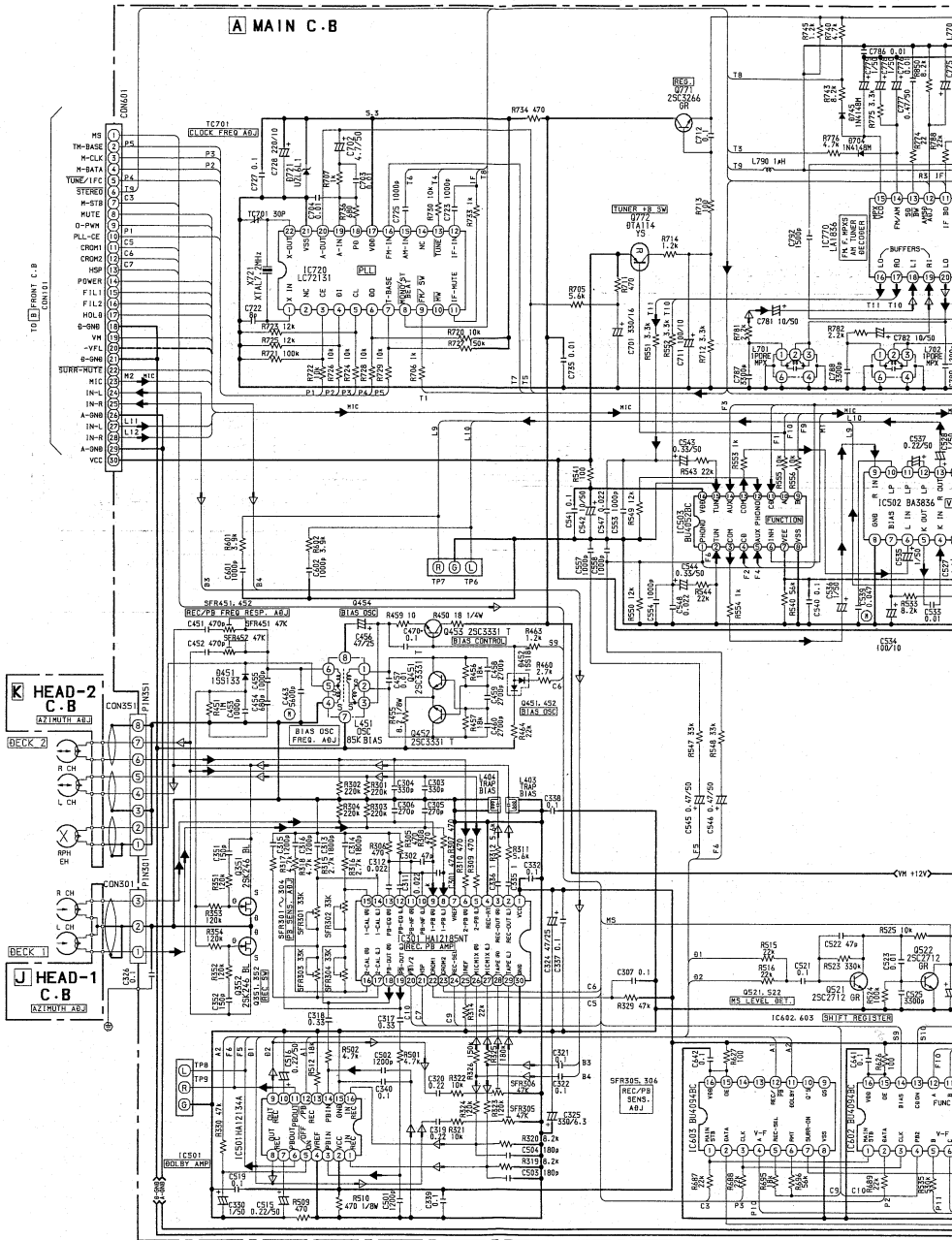
TRUTH TABLE

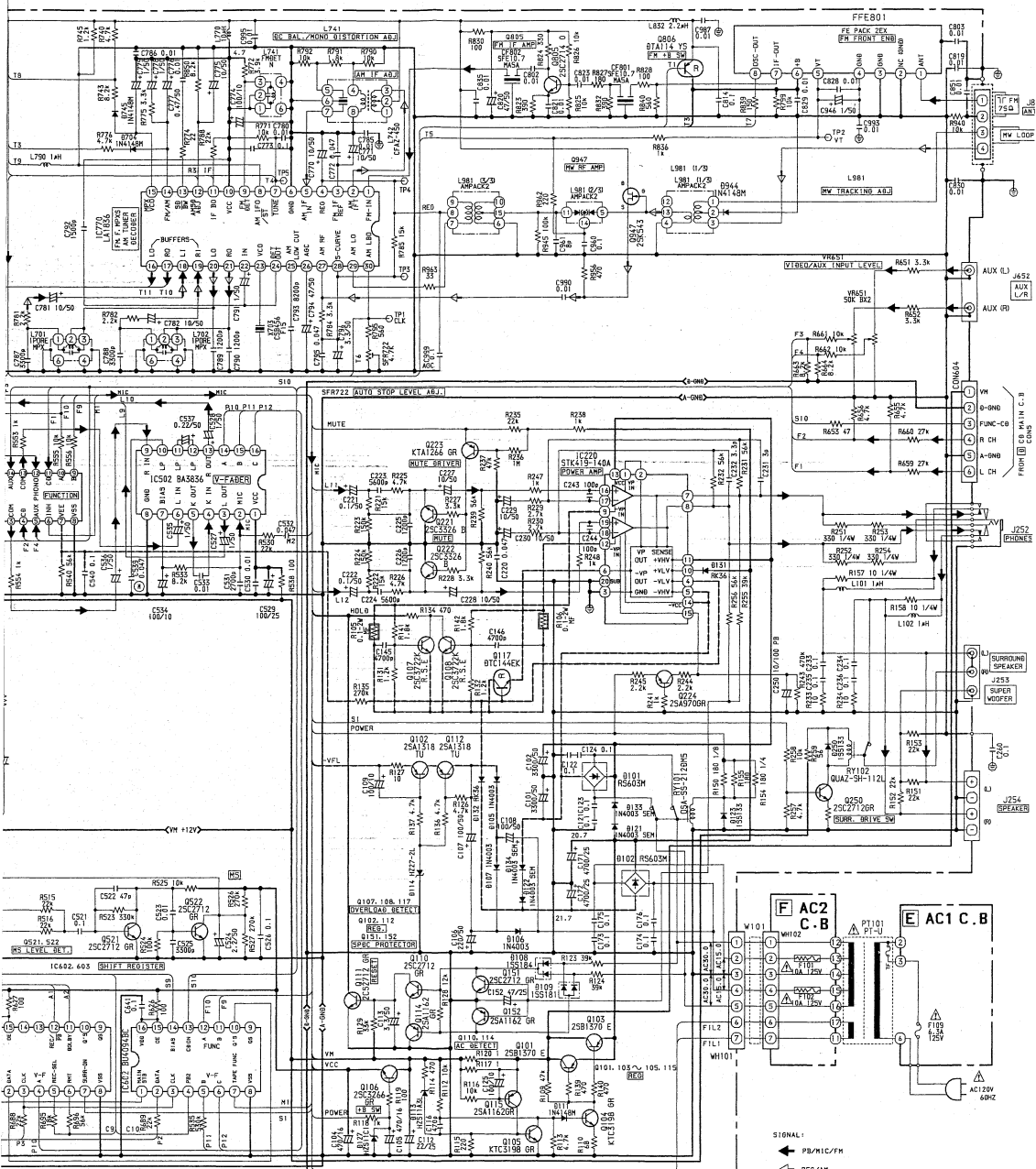
INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE



IC, HA12134A



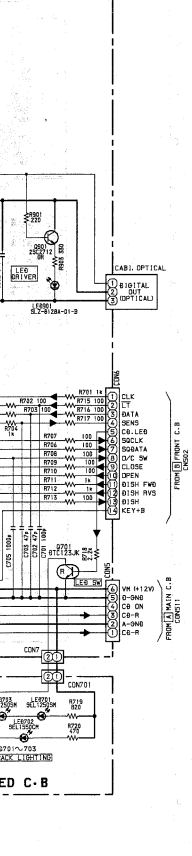


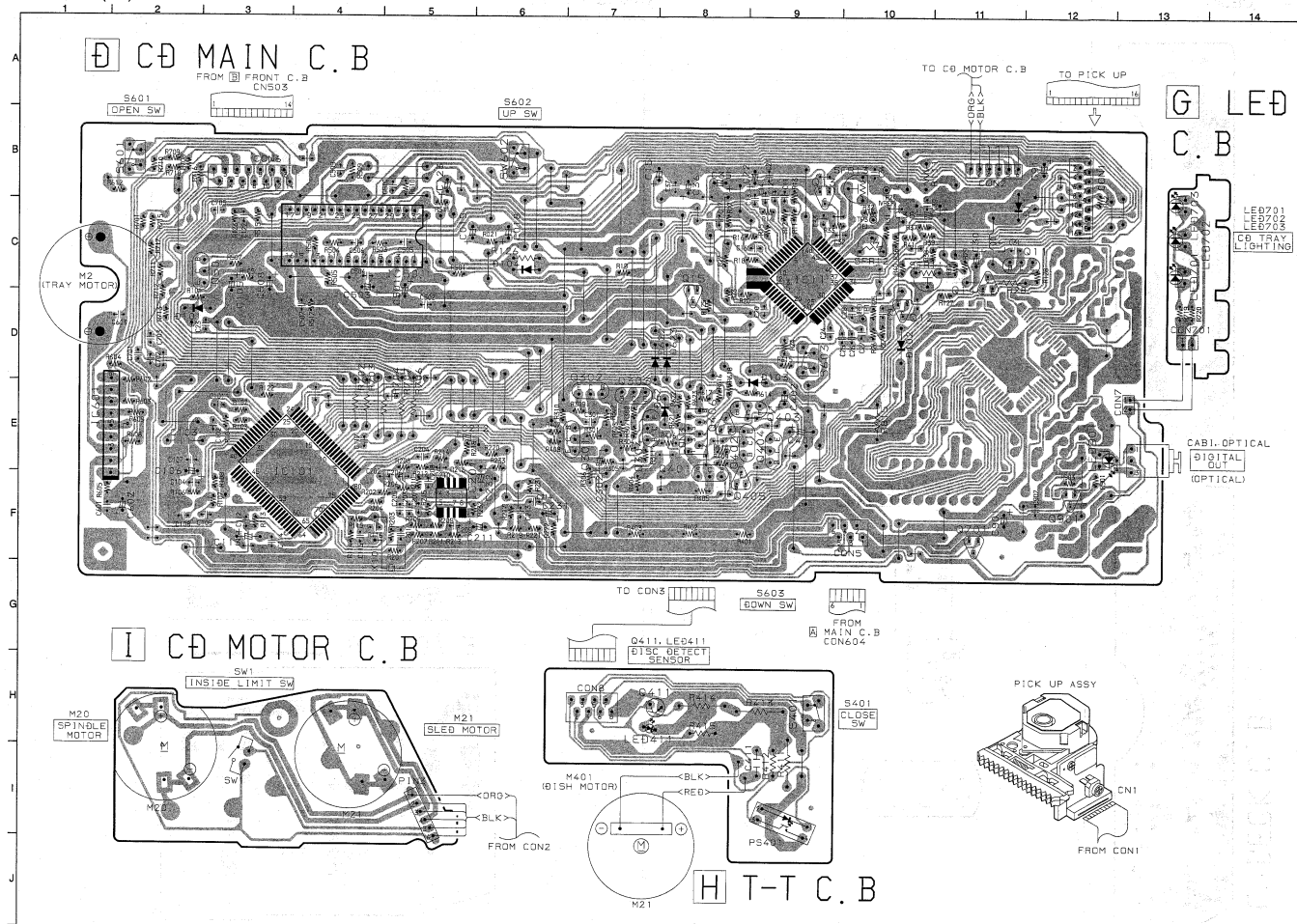


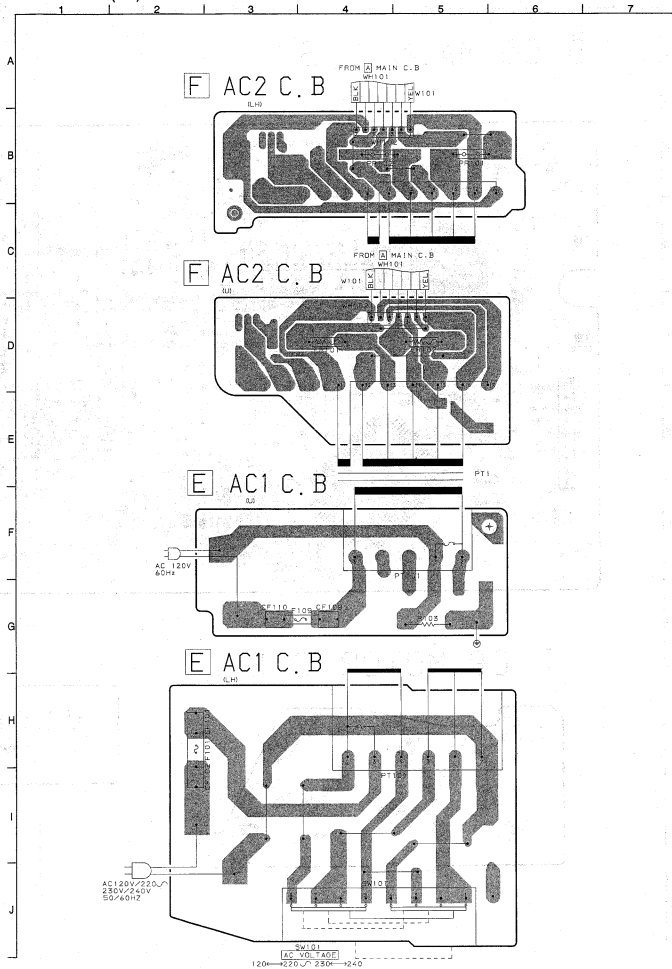
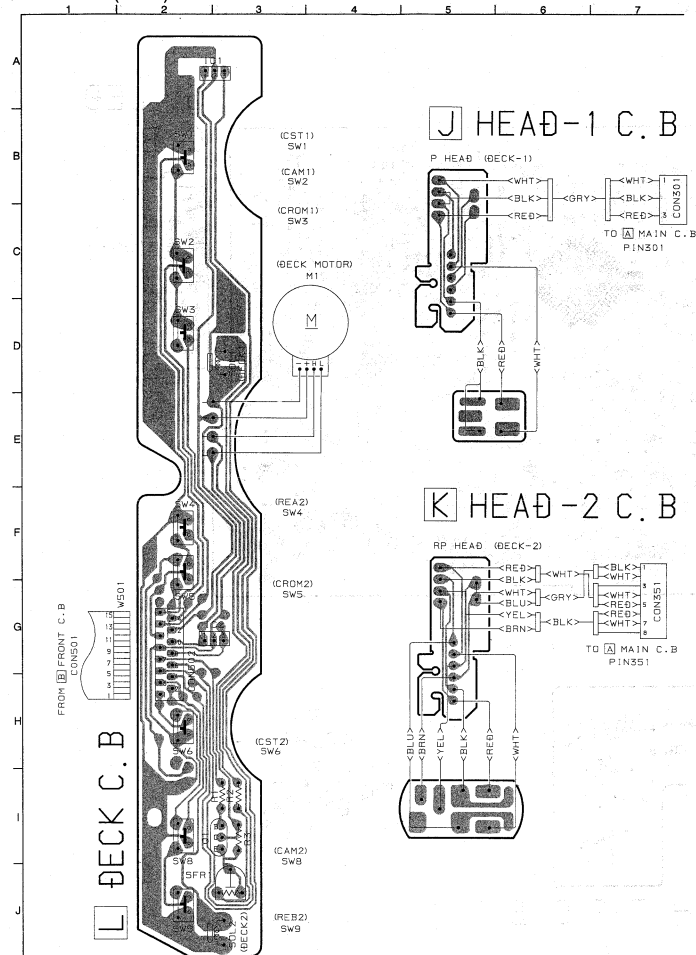




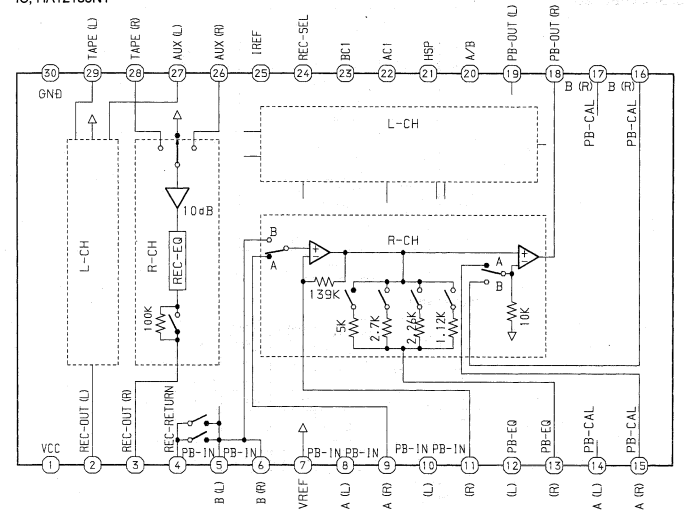
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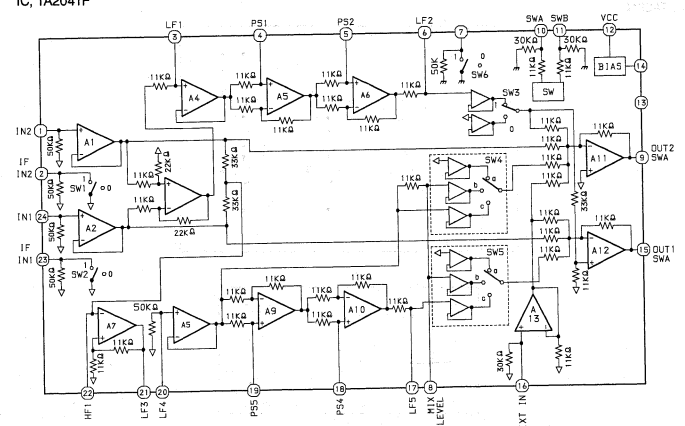




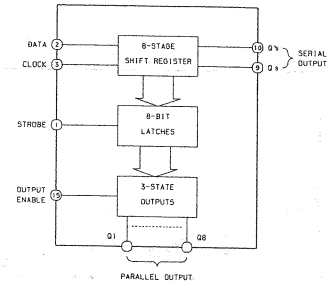
IC, HA12185NT



IC, TA2041F



IC, BU4094BC, BCF

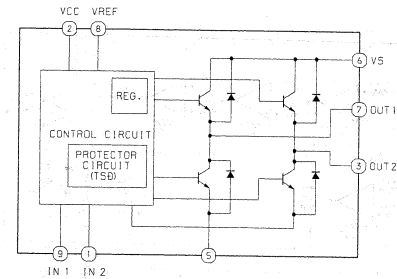


TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qn	Q'n
	L	X	X	Z	Z	Q7	NO Chg.
	L	X	X	Z	Z	NO Chg.	Qn
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qn

Z=High Impedance
X=Don't Care

IC, TA291S



INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW
0	1	L	H	CCW
1	1	L	L	BRAKE

∞ : HI IMPEDANCE
NOTE : INPUT "H" ACTIVE

IC DESCRIPTION

IC, LC866440W-5B22

Pin No.	Pin Name	I/O	Description
1	O-OPEN	O	CD tray open output.
2	O-CLOSE	O	CD tray close output.
3	O-STB(M)	O	Main C.B shift register strobe output.
4	O-DATA(M)	O	Main C.B shift register data output.
5	O-CLK(M)/O-P/CLK	O	Main C.B shift register clock output/Pro logic transfer CLK output.
6	O-C-SHIFT	O	System clock shift output ON/OFF.
7	RST	I	Micon reset pin.
8	I-HOLD	I	Power failure detector input.Hold at "L". Input data P74 is 1 at "L".
9	I-TUNE/IFC	I	Tuner SD detection input / IF count serial data input.
10	VSS1	-	D-GND.
11,12	CF1,CF2	-	5.76MHz clock oscillator input.
13	VDD1	-	Power supply terminal (+5.6V).
14	I-KEY1	I	Key matrix 1 input.
15	I-KEY2	I	Key matrix 2 input.
16	I-KEY3	I	Key matrix 3 input.
17	I-CD/SW	I	CD switch position.Tray open/close detect in (A/D).
18	I-CD/DISH	I	A/D CD turnable potential detected input.(Slit/ Disc Detect Sensor)
19	I-MS	I	Tape/MS detection input.
20	I-HP	I	Head phone detection input low active at PRO/LOGIC mode.
21	I-MIC	I	Auto vocal fader/Mic level AD input.
22	I-TM BASE	I	Reference clock input for PLL IC (8/50/60 Hz).
23	I-SENSE/STEREO	I	CD sense input/Stereo input (active low).
24	I-RMC	I	Remote control input (active low).
25-33	G9-G1	O	FL grid output (G9-G1).
34-40	P25-P19	O	FL segment output (P25-P19).
41	VDD2	-	Power supply terminal (+5.6V).
42	-VP	-	-VFL.
43-45	P18-P16	O	FL segment output (P18-P16).
46	P15	I	FL segment P15/PRO LOGIC selected input.
47	P14	I	FL segment P14/Tape2 cassette input.
48	P13	I	FL segment P13/Enable Tape2 side B rec sw input.
49	P12	I	FL segment P12/Tape2cam sw input.
50	P11	I	FL segment P11/Tape1 auto stop input.
51	P10	I	FL segment P10/Tape1 cam sw input.
52	P1	I	FL segment P1/Tape2 auto stop input.
53	P2	I	FL segment P2/Tape1 cassette in sw input.
54	P3	I	FL segment P3/Enable Tape1 side A rec sw input.
55	P4	I	FL segment P4/Surround unselected input.
56	P5	I	FL segment P5/LW selected input.
57	P6	I	FL segment P6/Keycon selected input.
58	P7	I	FL segment P7/AM10K-Stereo selected input.
59	P8	O	FL segment P8/AM-stereo selected input.
60	P9	O	FL segment P9/SALSA-MODE selected input.
61	HSP	O	Tape high speed control output.
62	O-PLL/CE	O	PLL IC chip enable output.
63	O-MUTE	O	Audio-mute (ON/OFF)
64	O-P/STB	O	PRO LOGIC chip enable output.
65	O-POWER	O	Power supply ON/OFF output.
66	O-SOL1	O	Tape1 soleniod ON/OFF output.
67	O-SOL2	O	Tape2 soleniod ON/OFF output.

Pin No.	Pin Name	I/O	Description
68	O-MOTOR	O	Tape motor ON/OFF output.
69	O-KEYSCAN	O	Segment Input enable output(active low).
70	O-STB(F)	O	Front C.B shift register strobe output.
71	O-CLK(F)	O	Front C.B shift register clock output.
72	O-DATA(F)	O	Front C.B shift register data output.
73	VSS2	—	D-GND.
74	O-CLK(CD)	O	CD control transfer clock output.
75	O-XTL(CD)	O	CD control latch output.
76	O-DATA(CD)	O	CLK control data output.
77	O-SQCK (CD)	O	CLK output for SUBQ/DATA input.
78	I-SQDATA (CD)	I	CD SUBQ/DATA input.
79	O-DI/F(CD)	O	CD turn table positive rotation output.
80	O-DI/R	O	CD turn table negative rotation output.

IC, LC72131D

Pin No.	Pin Name	I/O	Description																								
1	XIN	-	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	-	Not connected.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866440W-5B22) when relevant key is operated. Active "H".																								
5	CL	I	To clock in the data input.																								
6	DO	O	Digital data output to CPU (LC866440W-5B22).																								
7	T-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / ST BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / SW	O	Output "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table><tr><td colspan="2">2 BAND</td><td colspan="3">3 BAND</td><td colspan="3">3 BAND</td></tr><tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr><tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr></table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IF-IN	I	General purpose counter input.																								
13	TUNE	I	Receives "L" when station is tuned.																								
14	NC	-	Not connected.																								
15	AM-IN	I	Receives the AM local oscillator frequency signal.																								
16	FM-IN	I	Receives the FM local oscillator frequency signal.																								
17	VDD	-	Supply power to IC (+5V).																								
18	PD	O	PLL charge pump output.																								
19	A-IN	I	The MOS transistor for PLL active low pass filter.																								
20	A-OUT	O																									
21	VSS	-	Ground.																								

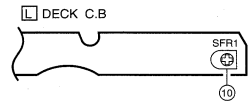
Pin No.	Pin Name	I/O	Description
1	SCOR	O	Outputs high signal when either subcode sync S0 or S1 is detected. (Not used)
2	SBSO	O	SUB P to W serial output. (Not used)
3	EXCK	I	SBSO readout clock input. (Connected to VSS)
4	SQSO	O	SUBQ 80-bit serial output.
5	SQCK	I	SQSO readout clock input.
6	MUTE	I	High to mute. Low to cancel. (Connected to GND)
7	SENS	O	SENS signal output to main CPU.
8	XRST	I	System reset. Reset when low.
9	DATA	I	Serial data input from main CPU.
10	XLT	I	Latch input from main CPU. Serial data is latched at the falling edge.
11	CLK	I	Serial data transfer clock input from main CPU.
12	VSS	-	GND.
13	SEIN	I	Sense input from SSP (CXA1782BQ).
14	CNIN	I	Track jump count signal input.
15	DATO	O	Serial data output to SSP (CXA1782BQ).
16	XLTO	O	Serial data latch output to SSP (CXA1782BQ). Latched at the falling edge.
17	CLKO	O	Serial data transfer clock output to SSP (CXA1782BQ).
18	SPOA	I	Microcomputer extended interface (input A).
19	SWIL	I	Microcomputer extended interface (input B). (Connected to SW1)
20	SPOC	I	Microcomputer extended interface (input C). (Connected to VDD)
21	XSEL	I	Crystal selection input. Low for 16.93 MHz and High for 33.87MHz.
22	XLON	O	Microcomputer extended interface (output).
23	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
24	MON	O	Spindle motor ON/OFF control output.
25	MDP	O	Spindle motor servo control output.
26	MDS	O	Spindle motor servo control output. (Not used)
27	LOCK	O	GFS is sampled at 460 Hz. When GFS is high, this pin outputs a high signal. If GFS is low eight consecutive samples, this pin outputs low.
28	TEST1	I	TEST pin. Normally connected to GND.
29	FILO	O	Master PLL (slave = digital PLL) filter output.
30	FILI	I	Master PLL filter input.
31	PCO	O	Master PLL charge pump output.
32	VDD	-	Digital power supply (+5V).
33	AVSS1	-	GND.
34	CLTV	I	Master PLL VCO control voltage input.
35	AVDD1	-	Analog power supply (+5V).
36	RF	I	EFM signal input.
37	BIAS	I	Constant current input to asymmetry correction circuit.
38	ASYI	I	Comparator voltage input to asymmetry correction circuit.
39	ASYO	O	EFM full swing output (Low = VSS, High = VDD).
40	ASYE	I	L: asymmetry correction OFF. H: asymmetry correction ON. (Connected to VDD)

Pin No.	Pin Name	I/O	Description
41	WDCK	O	D/A interface for 48-bit slot. Word clock (2FS). (Not used)
42	LRCK	O	D/A interface for 48-bit slot. LR clock (FS).
43	LRCKI	I	LR clock input for DAC. (48-bit slot)
44	PCMD	O	D/A interface. Serial data (two's complement, MSB first).
45	PCMDI	I	Audio data input for DAC. (48-bit slot)
46	BCK	O	D/A interface. Bit clock.
47	BCKI	I	Bit clock input for DAC. (48-bit slot)
48	GTOP	O	GTOP output. (Not used)
49	XUGF	O	XUGF output. (Not used)
50	XPCK	O	XPLCK output. (Not used)
51	GFS	O	GFS output. (Not used)
52	RFCK	O	RFCK output. (Not used)
53	VSS	-	GND.
54	C2PO	O	C2PO output. (Not used)
55	XROF	O	XRAOF output. (Not used)
56	MNT3	O	MNT3 output. (Not used)
57	MNT1	O	MNT1 output. (Not used)
58	MNT0	O	MNT0 output. (Not used)
59	FSTT	O	2/3 frequency divider output for Pins 73 and 74. (Not used)
60	C4M	O	4.2336 MHz output. (Not used)
61	DOUT	O	Digital Out connector output signal.
62	EMPH	O	Outputs high signal when the playback disc has emphasis, low signal when no emphasis.
63	EMPHI	I	DAC de-emphasis ON/OFF. High: on; low; off.
64	WFCK	O	WFCK (Write Frame Clock) output. (Not used)
65	ZEROL	O	No sound data detection output. High (L-ch) when no sound data is detected. (Not used)
66	ZEROR	O	No sound data detection output. High (R-ch) when no sound data is detected. (Not used)
67	DTSI	I	Test pin for DAC; normally low. (Connected to GND)
68	VDD	-	Digital power supply. (+5V).
69	LPWM	O	Left channel PWM output. (Forward phase)
70	NLPWM	O	Left channel PWM output. (Reverse phase)
71	AVDD2	-	Power supply for left channel PWM driver (+5V).
72	AVDD3	-	Power supply for crystal (+5V).
73	XTAI	I	33.8688 MHz crystal oscillator circuit input.
74	XTAO	O	33.8688 MHz crystal oscillator circuit output.
75	AVSS1	-	GND for crystal.
76	AVSS2	-	GND for PWM driver.
77	NRPWM	O	Right channel PWM output. (Reverse phase)
78	RPWM	O	Right channel PWM output. (Forward phase)
79	DTS2	I	DAC test pin 2; normally low. (Connected to GND)
80	DTS3	I	DAC test pin 3; normally low. (Connected to GND)

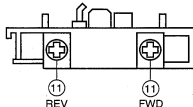
Pin No.	Pin Name	I/O	Description
1	FEO	O	Focus error amplifier output pin. This pin is connected to the FZC comparator input internally.
2	FEI	I	Focus error input pin.
3	FDFCT	I	Capacitor connection pin for the time constant used when there is defect.
4	FGD	I	Corrects the focus servo high frequency gain.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FEO	O	Focus drive output.
7	PEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TAM	I	Tracking amplifier inverted input pin.
13	TAO	O	Tracking drive output.
14	SLP	I	Sled amplifier non-inverted input pin.
15	SLM	I	Sled amplifier inverted input pin.
16	SLO	O	Sled drive output.
17	ISSET	I	The current which determines height of the focus search, track jump and sled kick is input.
18	VCC	-	Power supply (+5V).
19	CLK	I	Serial data transfer clock input from main CPU.
20	XLT	I	Latch input from main CPU.
21	DATA	I	Serial data input from main CPU.
22	XRST	I	Reset input pin. Reset at low.
23	COUNT	O	Signal output to count the number of tracks.
24	SENS	O	FZC, DFCT, TZC, Gain or BAL is output depending on the command from main CPU.
25	FOK	O	Output pin of the focus OK comparator.
26	CC2	O	Input pin where the DEFECT bottom hold output is capacitance coupled.
27	CC1	I	DEFECT bottom hold output pin.
28	CB	I	This is a pin where the DEFECT bottom hold capacitor is connected.
29	CP	I	This is a pin where the MIRR hold capacitor is connected and MIRR comparator non-inverted signal is input.
30	RFI	I	Input pin where the RF summing amplifier output is capacitance coupled.
31	RFO	O	RF summing amplifier output pin.
32	RFM	I	RF summing amplifier inverted input pin. Gain of RF amplifier is determined by the resistor connected between RFO and this pin.

Pin No.	Pin Name	I/O	Description
33	LD	O	APC amplifier output pin.
34	PHD	I	APC amplifier input pin.
35 ~ 36	PHD 1 ~ 2	I	RF I-V amplifier inverted input pins. These pins are connected to the A+C and B+D pins of the optical pickup.
37	FE-BIAS	I	Bias adjustment pin of the non-inverted side of the focus error amplifier.
38 ~ 39	F ~ E	I	F and E I-V amplifier non-inverted input pins. These pins are connected to the F and E of the optical pickup.
40	EI	-	Gain adjustment pin of the I-V amplifier E.
41	VEE	-	GND connection pin.
42	TEO	O	Tracking error amplifier output pin. E-F signal is output.
43	LPFI	I	BAL adjustment comparator input pin.
44	TEI	I	Tracking error input pin.
45	ATSC	I	Window comparator input pin for detecting ATSC.
45	TZC	I	Tracking zero-cross comparator input pin.
47	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
48	VC	O	DC voltage output pin of VREF. (VDD/2)

ADJUSTMENT – 1 <TUNER / DECK>



DECK-1 P. DECK-2 R / P / E HEAD



< TUNER SECTION >

1. Clock Frequency Adjustment
Settings : • Test point : TP1
• Adjustment location : TC701
Method : Set to MW 1710kHz and adjust TC701 so that the test point becomes 2160kHz ± 0.01kHz.
2. MW VT Check
Settings : • Test point : TP2 (VT)
Method : Set to MW 1710kHz and check that the test point is 7.0V ± 1.0V.
3. AM IF Adjustment
Settings : • Test points : TP6, TP7
• Adjustment location : L742
L742 450kHz
Method : Set to MW 1000kHz and adjust L742 so that the test point becomes maximum.

4. MW Tracking Adjustment
Settings : • Test points : TP6, TP7
• Adjustment location : L981
Method : Set to MW 1000kHz and adjust L981 so that the test point becomes maximum.
5. FM VT Check
Settings : • Test point : TP2 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.0V(87.5MHz) and less than 8.0V(108.0MHz).
6. FM Tracking Check
Settings : • Test points : TP6, TP7
Method : Set to FM 98.0MHz and check that the test point is 24 μ ± 6 μ .

7. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4
 • Adjustment location : L741
 • Input level : 54dB
Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V $\pm$ 0.04V
Next, check that the distortion is less than 1.3%.
8. Auto Stop Level Adjustment
Settings : • Test point : TP5
 • Adjustment location : SFR722
 • Input level : 18dB
Method : Set to FM 98.0 MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) by 2dB down.
9. Auto Stop Level Check
MW
Settings : • Test point : TP5
 • Input level : 50dB
Method : Set to MW 999kHz(H), MW1000kHz(LH) and check that the test point is 40 ~ 65 dB.
- FM
Settings : • Test point : TP5
 • Input level : 20dB
Method : Set to FM 98.0MHz and check that the test point is 20 dB $\pm$ 5 dB.

< DECK SECTION >

10. **Tape Speed Adjustment (DECK2)**
 Settings : • Test tape : TTA-100
 • Test points : TP8, TP9
 • Adjustment location : SFR1
 Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz $\pm$ 5Hz, and to $\pm$ 45Hz of the FWD value during the REV mode.

11. **Head Azimuth Adjustment (DECK1, DECK2)**
 Settings : • Test tape : TTA-300
 • Test points : TP8, TP9
 • Adjustment location : Head azimuth adjustment screw
 Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD and REV PLAY mode.

15. **REC/PB Sensitivity Adjustment**
 Settings : • Test tape : TTA-602
 • Test points : TP8, TP9
 • Input signal : 1kHz (LINE IN)
 • Adjustment location : SFR305 (Lch)
 SFR306 (Rch)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is 21mV $\pm$ 0.5dB.

16. **Bias OSC Frequency Adjustment**
 Settings : • Test tape : TTA-615
 • Test point : TP10 (R311)
 • Adjustment location : L451
 Method : Set to the REC mode. Adjust L451 so that the frequency at the test point becomes minimum.

12. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-300
 • Test points : TP8, TP9
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is 0dB±2dB.

13. PB Sensitivity Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-200
 • Test points : TP8, TP9
 • Adjustment location : SFR301 (DECK 1, Lch)
 SFR302 (DECK 1, Rch)
 SFR303 (DECK 2, Lch)
 SFR304 (DECK 2, Rch)
 Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

14. REC/PB Frequency Response Adjustment
Settings : Test tape : TTA-602
- Test points : TP8, TP9
 - Input signal : 1kHz / 10kHz (LINE IN)
 - Adjustment location : SFR451 (Lch)
SFR452 (Rch)
- Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB $\pm$ 0.5dB with respect to that of the 1kHz signal.

15. **REC/PB Sensitivity Adjustment**
Settings: • Test tape : TTA-602
 • Test points : TP8, TP9
 • Input signal : 1kHz (LINE IN)
 • Adjustment location : SFR305 (Lch)
 SFR306 (Rch)
Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is $21\text{mV} \pm 0.5\text{dB}$.

16. Bias OSC Frequency Adjustment
 Settings : • Test tape : TTA-615
 • Test point : TP10 (R311)
 • Adjustment location : L451
 Method : Set to the REC mode. Adjust L451 so that the frequency at the test point becomes minimum.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF sensitivity :	3dB ± 6dB[at 87.5 / 98.0MHz] 6dB ± 6dB[at 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 36dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	More than 65dB[at 98.0MHz/MONO] More than 64dB[at 98.0MHz/STEREO]
Distortion :	1.3% [at 98.0MHz/MONO] Less than 2.0% [at 98.0MHz/STEREO]
Stereo separation :	More than 25dB[at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity :	52 ~ 62dB[at 600kHz]
(S/N 20 dB)	48 ~ 58dB [at 1000kHz / 1400kHz]
Signal to noise ratio :	More than 35dB[at 1000kHz]
Distortion :	Less than 1.5% [MONO] Less than 4.0% [STEREO]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
FF & REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	2.8V ± 2dB (SP OUT 2V)
REC/PB output level :	1.7V ± 2dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2)
Noise level (PB) :	Less than 110mV / 80mV (NORM, DOLBY OFF / B ON, SP OUT 2V) Less than 90mV / 70mV (CrO2, DOLBY OFF / B ON, SP OUT 2V)
Noise level (REC/PB) :	Less than 120mV / 90mV (NORM, DOLBY OFF / B ON, SP OUT 2V) Less than 100mV / 80mV (CrO2, DOLBY OFF / B ON, SP OUT 2V)
Crosstalk :	More than 58dB (1kHz, 0VU)
Channel separation :	More than 45dB (1kHz, 0VU)
Ensuring ratio :	More than 60dB (at 125Hz, 10VU)
Test tape :	TTA-602 (NORMAL) TTA-615 (CrO2)

CD TEST MODE

1. How to Activate CD Test Mode

- 1) Insert the AC plug while pressing the CD function button.
All FL display tubes will light up, and the test mode will be activated.

2. How to cancel CD Test Mode

- Either one of the following operations will cancel the CD test mode.
- Press the function button (except CD button).
 - Press the power switch button.
 - Disconnect the AC plug.

3. CD Test Mode Functions

When test mode is activated, the following mode functions from No. 1 to No. 5 can be used by pressing the operation keys.

Mode / No.	Operation	FL display	Function	Contents
Start mode No. 1	Test mode activation	All FL light up	• Activates the test mode. (CD block power supply ON)	All FL displays light up
Search mode No. 2	■ key		• Laser diode illuminated under normal circumstances • Continual focus search * NOTE 1 (The pickup lens repeats the full-swing up-down motion.) • Avoid continual searches that last for more than 10 minutes.	• Laser current measurement (Across R28 resistor) • FOCUS SERVO • Check focus search waveform • Check focus error waveform • FOK / FZC are not monitored in the search mode.
Play mode No. 3	◀▶ key		• Normal playback • Focus search is continued if TOC cannot be read * NOTE 1	FOCUS SERVO / TRACKING SERVO CLV SERVO / SLED SERVO Check FOK / FZC
Traverse mode No. 4	key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON / OFF Tracking balance (traverse) adjustment TP2 (VREF), TP3 (TE)
Sled mode No. 5	◀◀ key ▶▶ key	All FL light up	• Pickup moves to the outermost track • Pickup moves to the innermost track (During playback, machine operates normally.) * NOTE 3	SLED SERVO Check SLED mechanism operation

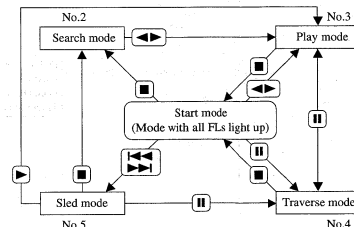
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases, the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

* NOTE 2: Do not press the ◀◀ or ▶▶ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been cancelled. If the ◀◀ or ▶▶ keys are pressed in the || status, press the ■ key and return to start mode (No. 1).

* NOTE 3: When pressing the ◀◀ or ▶▶ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ◀◀ or ▶▶ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline

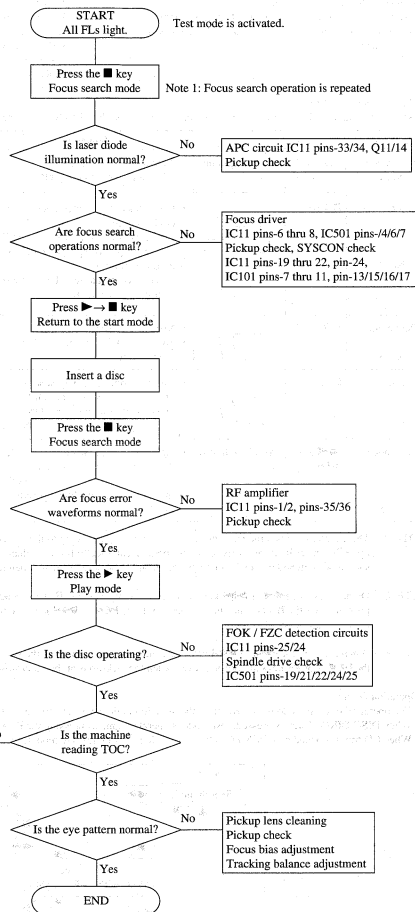
- The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.
- When DISC DIRECT key is pressed, test mode is operated same as pressing the PLAY key.
- When CD tray is opened by OPEN / CLOSE key while play and traverse modes, test mode goes back start mode.



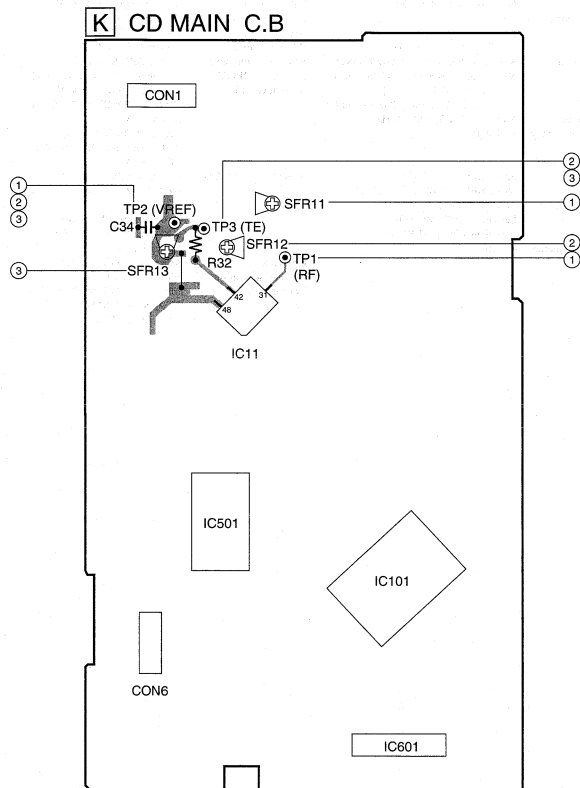
CD TROUBLE-SHOOTING

Flow Chart

- * When the TEST MODE cannot be initiated.
- CD functions will not operate
- Check the system control circuit
- Abnormality in the CD block power supply circuit
CON5 pin-1 +12V
IC501 pin-15 +5V
IC11 pin-48 +2.5V(VREF)
- * Reference: IC check-point terminals



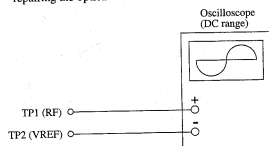
ADJUSTMENT - 2 <CD>



Note :
Connect a probe (10:1) of the oscilloscope or the frequency counter to a test point TP2 (VREF).

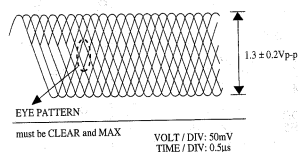
1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



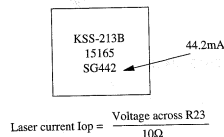
- 1) Connect an oscilloscope to the test points TP1 (RF) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR11 so that RF signal of the test point TP1 (RF) is MAX and CLEARREST.

RF signal waveform



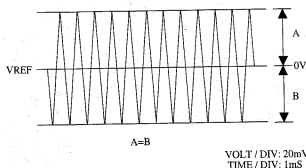
Note:

The current of the laser signal can be checked with the voltages on both sides of R23 (10Ω). The difference for the specified value shown on the level must be within $\pm 6.0mA$.



2. Tracking Balance Adjustment

- 1) Connect an oscilloscope to the test points TP3 (TE) and TP2 (VREF).
- 2) Active the CD test mode.
- 3) Insert test disc TCD-782 (YEDS-18) and set the traverse mode (No.4) of CD test mode.
- 4) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 5) After the adjustment is completed, remove the connected lead wires from the terminals.



3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these gains are reciprocate, the adjustment is performed at the point where both gains are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the gain adjustment is not satisfied, the symptoms below appear.

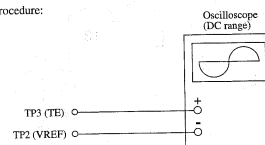
Symptoms	Gain	(Focus)	Tracking
• The time until music starts becomes longer for STOP → ▶PLAY or automatic selection (▶▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high	
• Music does not start and disc continues to rotate for STOP → ▶PLAY or automatic selection (▶▶ buttons pressed.)	—	low	
• Disc stops to rotate shortly after STOP → ▶PLAY.	low or high	—	
• Sound is interrupted during PLAY. Or time counter display stops.	—	low	
• More noises during the 2-axis device operation.	high	high	

The following is simple adjustment method.

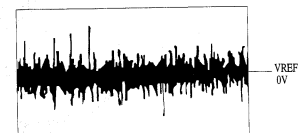
— Simple adjustment —

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



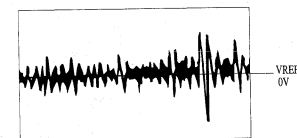
- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 3) Connect an oscilloscope to TP2 (VREF) and TP3 (TE).
- 4) Adjust SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



VOLT/DIV: 50 mV
TIME/DIV: 1 ms

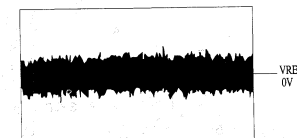
• Incorrect example

Low tracking gain
(The fundamental wave appears as compared with the waveform adjusted)

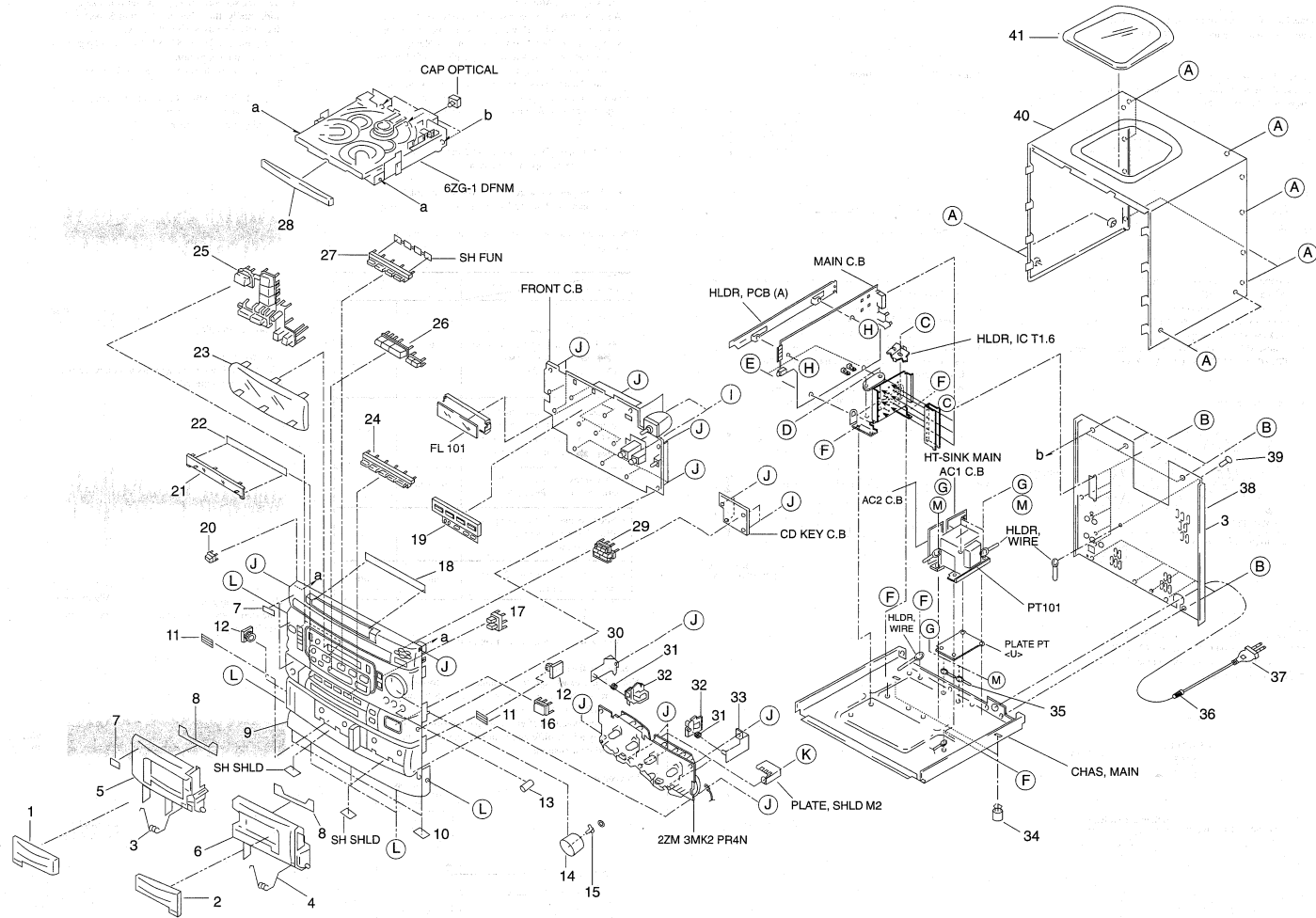


VOLT/DIV: 50 mV
TIME/DIV: 1 ms

High tracking gain
(The frequency of the fundamental wave is higher than in low gain)



VOLT/DIV: 50 mV
TIME/DIV: 1 ms

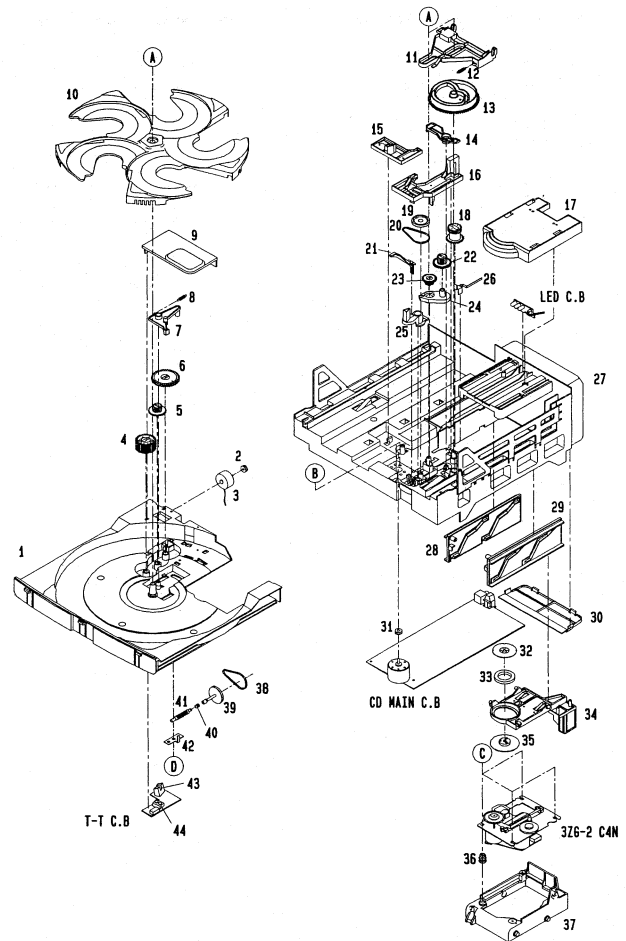


MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MA5-008-010		WINDOW, CASS L	30	82-NF5-226-010		HLDK LOCK, 1N
2	86-MA5-009-010		WINDOW, CASS R	31	82-NF5-228-010		SPR-C LOCK
3	82-NF5-218-010		SPR-T, BJECT1	32	82-NF5-229-010		PLATE LOCK
4	82-NF5-219-010		SPR-T, BJECT2	33	82-NF5-227-010		HLDK, LOCK 2 N
5	86-MA5-025-010		BOX, CASS L E<U>	34	87-085-224-010		FOOT, H17
5	86-MA5-002-010		BOX, CASS L<LH>	35	87-064-080-010		BINDER, WIRE
6	86-MA5-026-010		BOX, CASS R E<U>	36	87-085-185-010		BUSHING AC CORD E<LH>
6	86-MA5-003-010		BOX, CASS R<LH>	36	87-085-189-010		BUSHING AC CORD U<U>
7	82-NF6-032-010		BRACE, AINA 27.5 ABS GLD	37	87-050-078-010		AC CORD ASSY, E<LH>
8	86-NF6-061-010		REFLECTOR, CASS	37	87-050-053-010		AC CORD ASSY, U-2<U>
9	86-MA5-021-010		CABI PR LH<LH>	38	86-MA5-030-010		PANEL, REAR LHMM<LH>
9	86-MA5-023-010		CABI PR U<U>	38	86-MA5-033-010		PANEL, REAR URMN<U>
10	81-VW1-201-010		FLUT, 20-15-2	39	87-084-077-010		RIVET, NYL3, 5-4, 5
11	81-532-080-010		LBL, CASS-COMPT	40	86-MA5-014-010		CABI, STEEL
12	87-063-165-010		OIL, EMFRI150	41	86-MA3-042-010		WINDOW TOP
13	80-WF3-014-010		KNOB, MIC	A	87-067-641-010		UTV2+3-8 W/O SLOT BLK
14	86-MA3-019-010		KNOB, RTVY MAIN	B	87-067-761-010		BVT2+3-10 BLK
15	86-MA3-020-010		LENS, VOL	C	87-067-579-010		BVT2+3-8 W/O SLOT BLK
16	86-MA5-018-010		KEY, ASP	D	87-067-581-010		BVT2+3-15 W/O SLOT
17	86-MA5-015-010		KEY, P-BASS	E	87-067-633-010		BVT2+3-8 W/CON VEX
18	86-MA5-037-010		PANEL, TRAY E<U>	F	87-067-698-010		BVT2+3-6
18	86-MA5-004-010		PANEL, TRAY<LH>	G	87-067-975-010		S-SCRBW, IT+4-8 SWCH12A<U>
19	86-MA5-204-010		GUIDE, LED PLAY	H	87-078-084-010		BVT2+3-6 W/CONVEX
20	86-MA5-012-010		KEY, POWER	I	81-MX1-210-010		S-SCRBW, BVT2+3-16
21	86-MA5-007-010		WINDOW, SEQ	J	87-078-060-010		BVT23B+3-10
22	86-MA5-020-010		PLATE, SEQ<U>	K	87-571-032-410		VL7+2-3
22	86-MA5-040-010		PLATE, SEQ LH<LH>	L	87-591-095-410		QTV2+3-8
23	86-MA5-006-010		WINDOW AMP	M	87-067-585-010		BVT2+4-6<LH>
24	86-MA5-017-010		KEY, SEQ<U>				
24	86-MA5-039-010		KEY, SEQ LH<LH>				
25	86-MA5-019-010		KEY, DOLBY				
26	86-MA5-016-010		KEY, PLAY				
27	86-MA5-013-010		KEY, FCM				
28	86-MA5-005-110		WINDOW, CD				
29	86-MA5-010-010		KEY, DIRECT				

CD MECHANISM EXPLODED VIEW 1/2

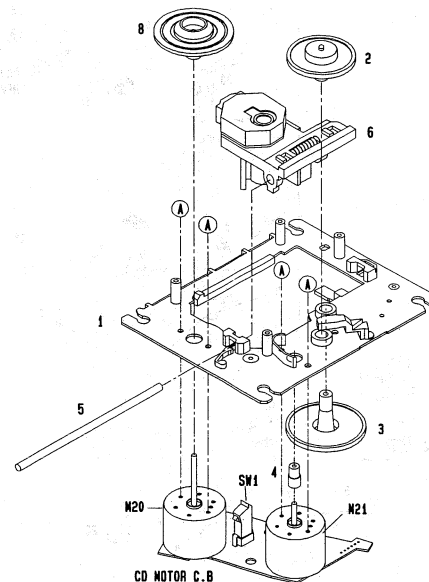


CD MECHANISM PARTS LIST 1 / 2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZG1-001-01K		TRAY, SCD	26	86-ZG1-220-110		SPR-P, LOCK
2	81-ZG1-212-01K		FULLY, LOAD MO	27	86-ZG1-201-01K		CHAS, MECHA
3	87-A90-036-019		MOT ASSY, RF-360CA-11	28	86-ZG1-203-01K		SLIDER, CAM L
4	86-ZG1-228-01K		GEAR, TT-B	29	86-ZG1-210-01K		SLIDER, CAM R
5	86-ZG1-227-01K		GEAR, TT-A	30	86-ZG1-005-01K		COVER, CHAS
6	86-ZG1-223-01K		WORM-WHEEL, TT	31	84-ZG2-228-019		PULLEY, MOT
7	86-ZG1-224-01K		LEVER, TT	32	83-ZG3-211-01K		PLATE, DISC
8	86-ZG1-226-010		SPR-E, LEVER TT	33	83-ZG1-602-010		RING, MAG
9	86-ZG1-003-01K		COVER, TRAY	34	86-ZG1-215-01K		HLDR, CRUCK
10	86-ZG1-002-01K		TURN TABLE, SCD	35	83-ZG3-212-019		CAP, DISC
11	86-ZG1-211-01K		JOINT, CAM	36	80-CD3-214-019		CUSH CD A
12	86-ZG1-216-010		SPR-E, JT	37	86-ZG1-202-01K		HLDR, MECHA
13	86-ZG1-203-01K		GEAR, MAIN CAM	38	86-ZG1-225-019		BELT, S01.2-32.9
14	86-ZG1-213-01K		LEVER, LOAD	39	86-ZG1-221-01K		PULLEY, TT
15	86-ZG1-214-01K		LEVER, PROTECT	40	86-ZG1-231-010		SPR-C, WORM
16	86-ZG1-212-01K		SLIDER, LOAD	41	84-ZG1-238-01K		GEAR, WORM N
17	86-ZG1-004-01K		REFLECTOR, CD	42	86-ZG1-232-010		SPR-P, WORM
18	86-ZG1-205-01K		GEAR, TRAY	43	86-ZG1-229-010		HLDR, SENSOR
19	84-ZG1-219-019		FULLY, RELAY BGE	44	86-ZG1-230-010		HLDR, DISC SENSOR
20	84-ZG1-209-010		BELT, S01.8-117.7	A	87-878-148-019		VFT 2x3-12(F10)HLX
21	86-ZG1-217-01K		LEVER, SW	B	87-251-072-419		U*2.6-5
22	86-ZG1-206-01K		GEAR, RELAY B	C	81-S01-254-019		S-SCRW, MECH HLDR
23	86-ZG1-204-01K		GEAR, RELAY A	D	87-067-579-010		BVT2+3-8 W/O SLOT
24	86-ZG1-218-01K		PLATE, GEAR				
25	86-ZG1-208-01K		LEVER, TRAY				

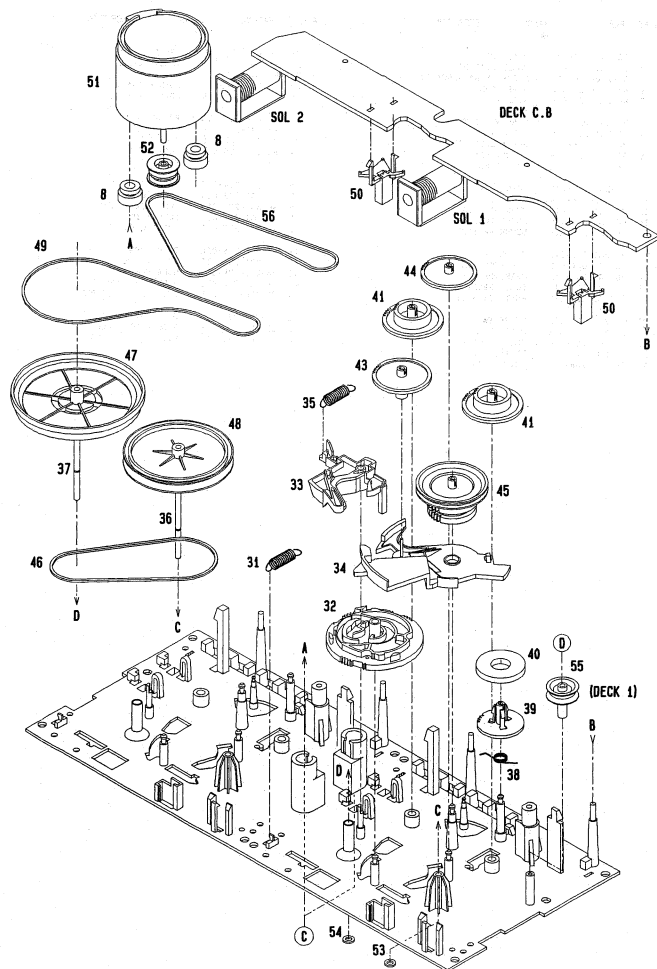
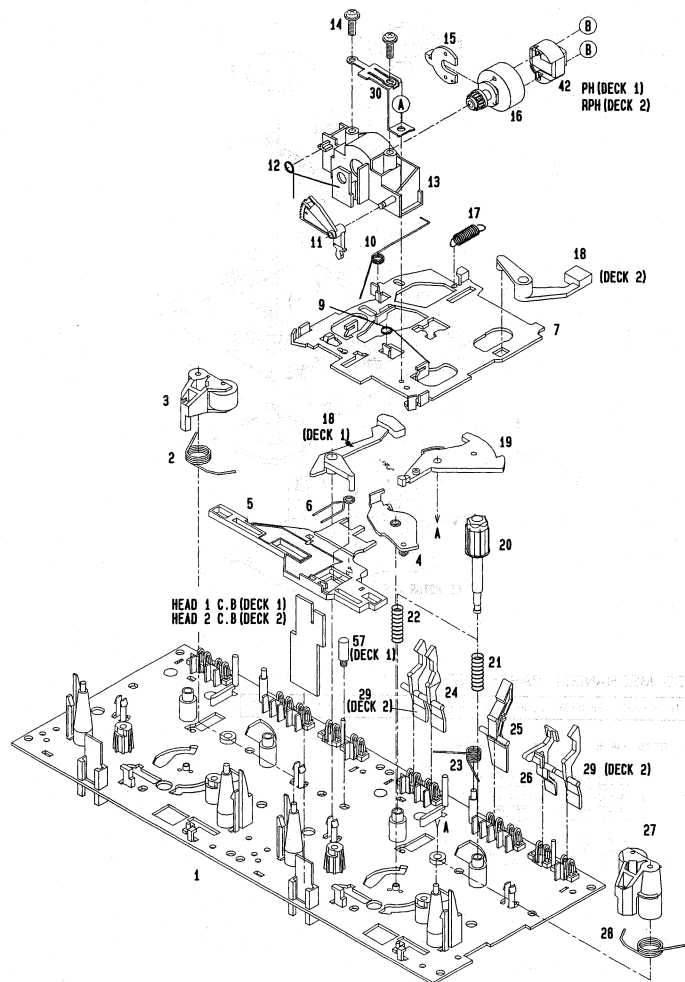
CD MECHANISM EXPLODED VIEW 2 / 2



CD MECHANISM PARTS LIST 2 / 2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-232-11K		O-SERT S ASSY, S5
2	83-ZG2-204-419		GEAR, A
3	83-ZG2-205-219		GEAR, B
4	83-ZG2-220-01K		GEAR MOTOR 2
5	83-ZG2-207-119		SHAFT, SLIDE
6	87-070-445-010		PICK-UP, KSS-213B
8	83-ZG2-227-01K		TURN TABLE, C1
A	87-261-032-219		SCREW V*2-3

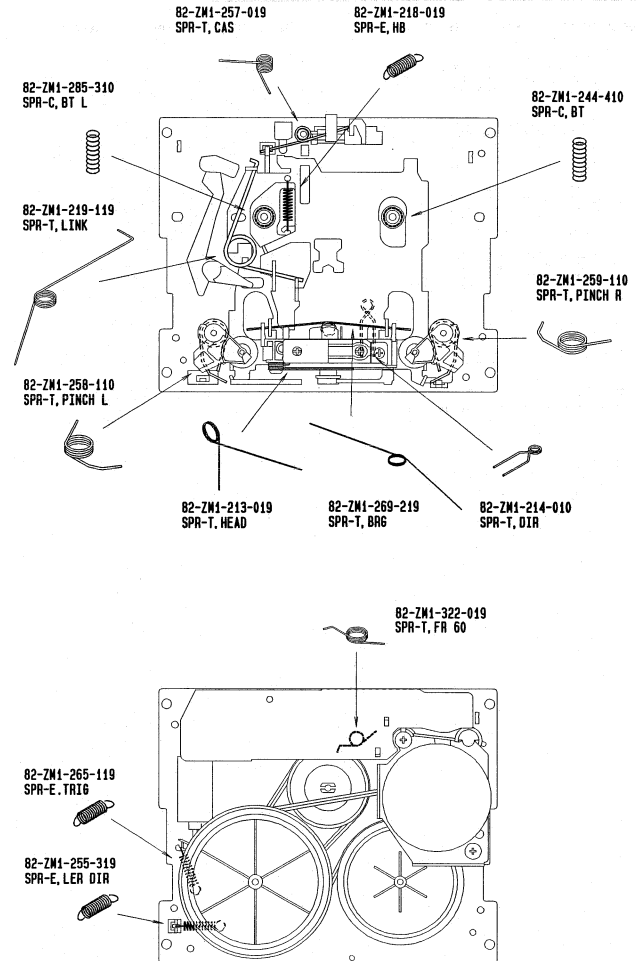


TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KAVRI NO.	DESCRIPTION	REF. NO.	PART NO.	KAVRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY, M2	35	82-ZM1-265-119		SFR-B, TRIG
2	82-ZM1-258-110		SFR-T, FINCH L	36	82-ZM1-236-019		CAPSTAN N 2-41.5
3	82-ZM1-345-019		LVR ASSY, FINCH L W	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
4	82-ZM1-333-010		PLATE, LINK 2	38	82-ZM1-322-019		SFR-T, FR60
5	82-ZM1-266-11K		LVR, DIR	39	82-ZM1-220-219		GEAR, IDLER
6	82-ZM1-214-010		SFR-T, DIR	40	82-ZM3-616-019		RING MAGNET 4
7	82-ZM1-206-81K		CHAS, HEAD	41	82-ZM1-216-31K		GEAR, REEL
8	82-ZM3-107-019		CHRG-O, DIA3.7-8-3.2	42	87-046-355-019		HEAD, PH HADKH529B
9	82-ZM1-269-219		SFR-T, BRG	42	87-046-356-019		HEAD, RPH HADKH581B
10	82-ZM1-219-119		SFR-T, LINK	43	82-ZM1-225-21K		GEAR, FR
11	82-ZM1-210-119		GEAR, H T	44	82-ZM1-226-019		GEAR, REW
12	82-ZM1-213-019		SFR-T, HEAD	45	82-ZM1-228-810		SLIP DISK ASSY
13	82-ZM1-207-619		GUIDE, TAPE	46	82-ZM1-338-010		BELT FR4
14	82-ZM1-293-310		S-SCREW, AZIMUTH	47	82-ZM1-238-61K		FLY-WHL ASSY, R (DECK2)
15	82-ZM1-314-119		PLATE, HEAD	47	82-ZM3-210-71K		FLY-WHL ASSY, R2 (DECK1)
16	82-ZM1-208-119		HLD, HEAD	48	82-ZM1-235-51K		FLY-WHL ASSY, L (DECK2)
17	82-ZM1-218-019		SFR-E, HB	48	82-ZM3-208-61K		FLY-WHL ASSY, L2 (DECK1)
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	49	82-ZM3-329-210		BELT, SBU R2
19	82-ZM1-264-010		LVR, EJECT R (DECK 2)	50	82-ZM1-245-210		HLD, IC
19	82-ZM1-222-21K		LVR, PLAY	51	87-045-347-019		MOT, SHZL 70 (M1)
20	82-ZM1-217-319		REEL, TABLE	52	82-ZM3-221-010		PULLEY, MOT 2M
21	82-ZM1-244-510		SFR-C, BT	53	82-ZM3-288-019		SH, 1.63-3.2-0.5 SLT
22	82-ZM1-285-310		SFR-C, BT L	54	80-ZM6-243-019		SH, 1.75-3.6-0.5 SLT
23	82-ZM1-257-019		SFR-T, CAS	55	82-ZM3-304-110		PULLEY, COUPLER (DECK1)
24	82-ZM1-243-319		LVR, NC	56	82-ZM3-338-110		BELT, SBU P2
25	82-ZM1-242-019		LVR, CAS	57	82-ZM3-216-019		SHAFT, COUPLER N (DECK1)
26	82-ZM1-243-019		LVR, STOP	A	82-ZM1-315-010		S-SCREW, GUIDE TAPE
27	82-ZM1-346-019		LVR ASSY, FINCH R W	B	80-ZM6-207-019		V+1.6-7
28	82-ZM1-259-110		SFR-T, FINCH R	C	82-ZM3-318-019		S-SCREW MOTOR M2
29	82-ZM1-240-11K		LVR, REC (DECK 2)	D	87-067-972-019		FW, 1.05-3-0.25 SLT
30	82-ZM1-298-010		SFR-P, EARTH				
31	82-ZM1-255-319		SFR-E, LVR DIR				
32	82-ZM3-305-01K		GEAR, CAM M2				
33	82-ZM1-227-21K		LVR, TRIG				
34	82-ZM3-306-11K		LVR, FR M2				

SPRING APPLICATION POSITION



ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MA5-902-019		IB, LB (BS) - M<LB>
1	86-MA5-903-019		IB, V (ESP) - M<D>
2	86-MA3-701-119		RC UNIT, 6AS01
3	87-006-225-019		AM LOOP ANT NC2
4	87-043-115-019		ANT, FEEDER FM
5	87-099-789-019		PLUG, CONVERSION IR44<LB>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C	CHIP
C-CAP	CAP. CHIP
C-CAP TN	CAP. CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP. CER	CAP. CERA-SOL
CAP. E	CAP. ELECT
CAP. M/F	CAP. FILM
CAP. TC	CAP. CERA-SOL
CAP. TC-U	CAP. CERA-SOL SS
CAP. TN	CAP. TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP. ELECT
FLT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TH	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP. PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP. CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP. TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESIVE	SHEET ADHESIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

アイワ株式会社
AIWA CO., LTD.

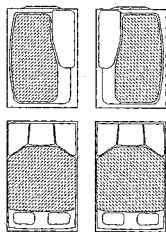
912204, 750038

Tokyo Japan

aiwa



SPEAKER



SPEAKER

• TYPE: English, Japanese

• This Service manual contains below models.

SX-SLM6	SX-CR321	SX-C300	SX-R210	SX-Z24	SX-Z240	SX-FZ2600
SX-SL300	SX-CR421	SX-C400	SX-R220	SX-Z26	SX-Z260	SX-FZ2700
SX-SL600	SX-CR423		SX-R230	SX-Z27	SX-Z270	SX-FZ3400
SX-SLAP1MK3			SX-R240		SX-Z280	
SX-SL800			SX-R250		SX-Z290	
			SX-R260			

SX-Z2890	SX-AZ2800	SX-ANV900	SX-NV200	SX-FNV500	SX-NAV70
SX-Z2350	SX-AZ3450	SX-ANV8000	SX-NV210	SX-FNV700	SX-NAV80
SX-Z4400			SX-NV300	SX-FNV800	SX-NAV90
SX-Z7400			SX-NV2000		SX-NAV700
SX-Z9400			SX-NV2100		SX-NAV800
			SX-NV3000		SX-NAV900
			SX-NV3001		

SX-N340	SX-NAVH8	SX-ANH9	SX-NK21	SX-NM9	SX-FNH8	SX-FNF7
SX-N410G	SX-NAVH9	SX-ANH90	SX-FNK23	SX-NM820		SX-FNF77
SX-N3200	SX-NAVH80					
SX-N3150	SX-NAVH90					

• SX-CR model's structures are as follows ;

SX-CR321	SX-CR421	SX-CR423
SX-C300	SX-C400	SX-C400
SX-R210	SX-R210	SX-R230

• This SPEAKER service manual is updated, so replace the previous SPEAKER service manual with this manual.

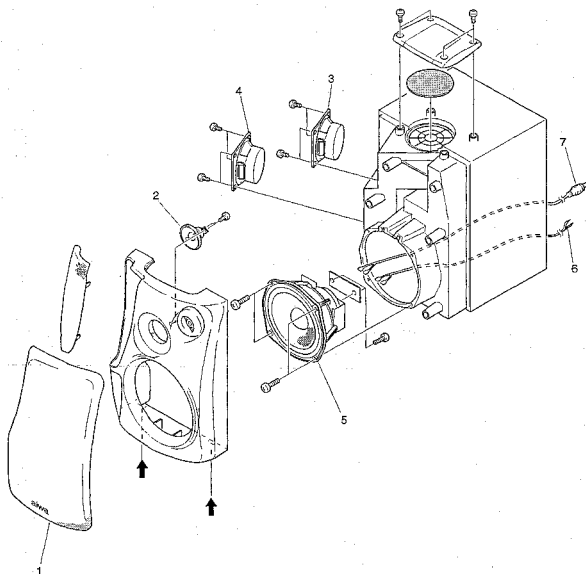
SX-ANV900 / ANV8000<900YJ, 900YL, 8000YU, 900Y, 900YJST, 900YST, 900YA, 900YJ3, 900YJ7>

SPEAKER DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.

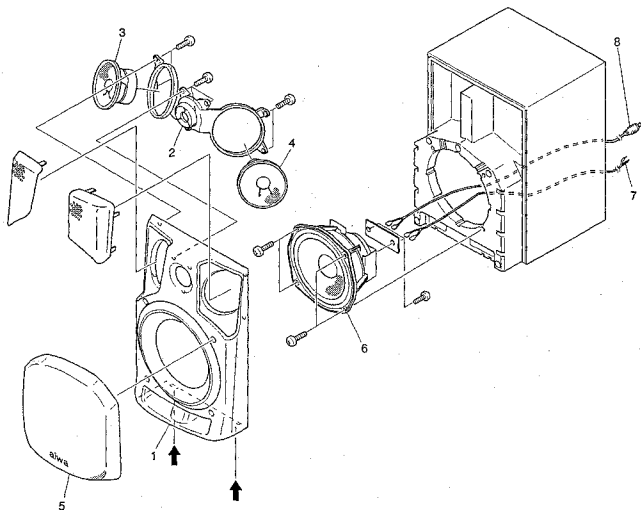


SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS4-010-019		GRILL FRAME L ASSY	9	83-NS5-613-019		SPEAKER CORD ASSY
2	86-NS4-009-019		GRILL FRAME R ASSY	10	85-NS6-611-019		SPEAKER CORD Y/B
3	86-NS4-001-019		PANEL, FR L				
4	86-NS4-002-019		PANEL, FR R				
5	86-NS4-608-019		SPKR T 50<EXCEPT 8000YU>				
6	86-NS4-604-019		SPKR W 80<EXCEPT 9000YU>				
7	86-NS4-606-019		SPKR F 80<EXCEPT 8000YU>				
8	86-NS4-602-019		SPKR W 140 H<900YJ, 900YL, 900YJST, 900YJ>				
8	86-NS4-612-019		SPKR W 140 L<8000YU>				
8	86-NS4-610-019		SPKR W 140 M<900Y, 900YST, 900YA>				

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

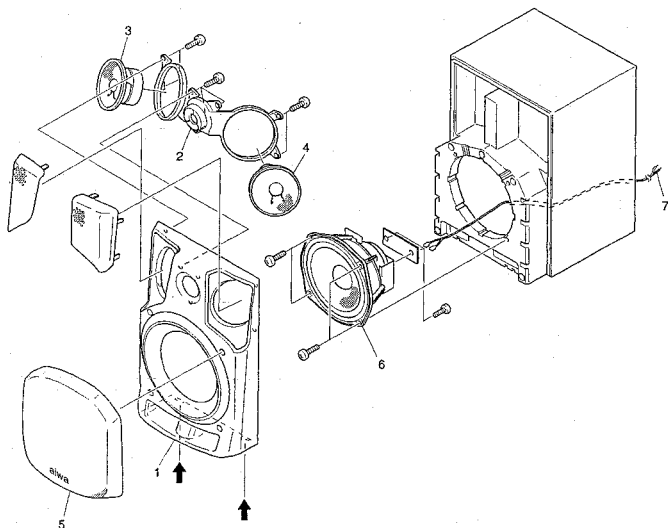
REF. NO.	PART NO.	KANHI NO.	DESCRIPTION
1	86-N55-001-019		PANEL FR<EXCEPT YJST, YJSTCC, YST, YJ7STL, YSTN>
2	86-N55-027-019		PANEL FR ST<YJST, YJSTCC, YST, YJ7STL, YSTN>
3	86-N55-028-019		HCLR SQ ASSY
4	86-N55-004-019		SPEAKER TWEEZER
4	86-N55-606-019		SPEAKER
5	86-N55-007-019		GRILL FRAME ASSY
6	86-N55-602-019		SPEAKER WOOFER<EXCEPT YABNL, YST>
6	86-N56-602-019		SPEAKER WOOFER<YABNL, YST>
7	83-N56-013-019		SPEAKER CORD ASSY
8	85-N56-611-019		SPEAKER CORD Y/B

SX-FNV500 / FNV700 / FNK23<500YL, 700Y, 700YJ, FNK23YJST> SPEAKER DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.

Remove the screws of each speaker unit and then remove the speaker units.



SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

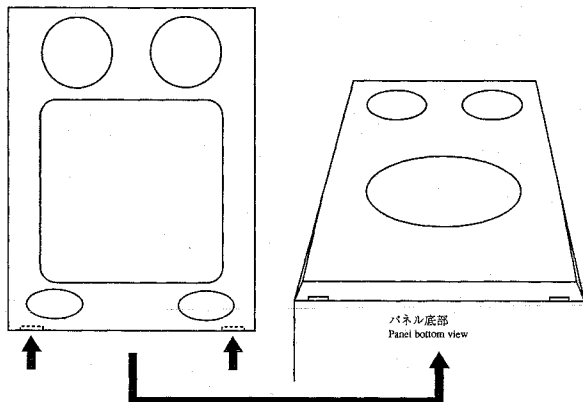
REF. NO.	PART NO.	KANFI NO.	DESCRIPTION
1	86-NS5-001-019		PANEL FR
2	86-NS5-028-019		HLDR SQ ASSY
3	85-NS5-604-019		SPEAKER TWEETER
4	86-NS5-606-019		SPEAKER
5	85-NS5-007-019		GRILL FRAME ASSY
6	86-NS5-608-019		SPEAKER WOOFER<700YJ, 500YL>
6	86-NS6-602-019		SPEAKER WOOFER<700Y, FNK23YJST>
7	85-NS6-611-019		SPEAKER CORD Y/B

SPEAKER DISASSEMBLY INSTRUCTIONS

NOTE : Refer this disassembly instructions when servicing models for SX-FZ3400, SX-Z3250, SX-NV300/
NV3000/NV3001, SX-NAV70/NAV700, SX-NAV90/NAV900 and SX-NAV80/NAV800.

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットの
ビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel.
Remove the screws of each speaker unit and then remove the speaker units.



SX-FZ3400<YJ, YL> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-VS2-004-010		PANEL FR
2	86-VS2-006-010		ADAPTOR ASSY
3	86-VS2-601-010		SPEAKER WOOFER
4	83-MS5-608-010		SPEAKER MID H
5	83-MS5-610-010		SPEAKER
6	86-VS2-009-010		GRILL FRAME ASSY
7	85-MS3-610-010		SPEAKER CORD ASSY Y/B
8	84-MS3-611-010		SPEAKER CORD ASSY

SX-Z3250<Y, YJ, YL>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-VS4-006-010		GRILL FRAME ASSY<YJ, YL>
1	85-VS4-012-010		GRILL FRAME ASSY E<Y>
2	85-VS4-001-010		PANEL FR R<YJ, YL>
3	85-VS4-004-010		PANEL FR L<YJ, YL>
4	86-NSS-003-010		PANEL TW ASSY<YJ, YL>
5	86-MSS-602-010		SPEAKER W 220<YJ, YL>
5	85-VS4-601-010		SPEAKER WOOFER<Y>
6	84-VS3-603-010		SPEAKER TW 60<YJ, YL>
6	85-VS4-603-010		SPEAKER TWEETER<Y>
7	85-VS4-605-010		SPEAKER CERAMIC<Y>
8	83-096-614-010		SPEAKER CORD<YJ, YL>

SX-NV300 / NV3000 / NV3001 / NK21
<300YJBNC, 300YLBNC, 300YBNC, 3000YUBNC, 300B, 3001YUWNC, 300YJBNC, 300YBNC, 300YJ7, 300YJBNC1, 300YJBNC1C, 3001YUWNT, 3000YUBNT, 300YBNC2, 300YLBNC1, 300YBNC, NK21YJSTNC>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NST-006-010		- GRILL FRAME ASSY<EXCEPT YUBNC, YUWNC, YUWNT, NK21YJSTNC>
1	86-NSU-016-010		GRILL FRAME ASSY W<YUWNC, YUWNT>
1	86-NSU-006-010		GRILL FRAME ASSY D<EXCEPT YJBNC, YLBNC, YBNC, B, YUWNC, YJ7BNC, YENY1, YJBNC, YUWNT, YBNY2>
2	86-NST-001-010		- PANEL FR R<EXCEPT YUBNC, YUWNC, YUWNT, NK21YJSTNC>
2	86-NSU-004-010		PANEL FR R D<YUBNC, YJBNC1, YJBNC1C, YUBNT, YLBNC1, YBNC1>
2	86-NSU-019-010		PANEL FR R ST<NK21YJSTNC>
3	86-NST-002-010		- PANEL FR L<EXCEPT YUBNC, YUWNC, YUWNT, NK21YJSTNC>
3	86-NSU-005-010		PANEL FR L D<YUBNC, YJBNC1, YJBNC1C, YUBNT, YLBNC1, YBNC1>
3	86-NSU-020-010		PANEL FR L ST<NK21YJSTNC>
4	86-NSU-602-010		SPEAKER WOOFER<YBNY1, YBNY2>
4	86-NSS-608-010		- SPEAKER WOOFER<EXCEPT YBNY1, YBNY2>
5	85-NST-604-010		- SPEAKER TWEETER<EXCEPT YBNY1, YBNY2>
5	86-NSU-604-010		SPEAKER TWEETER<YBNY1, YBNY2>
6	83-096-614-010		SPEAKER CORD
7	82-NSE-610-010		CERAMIC
8	83-NSB-009-010		- DIAPHRAGM

SX-NAV70 / NAV700<70YJ, 70Y, 700YU, 70YSTNC, 70YBNC1, 70YBNC2, 70YSTNY1>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NST-013-010		PANEL FR L ST<YSTNC, YSTNY1>
1	86-NST-002-010		PANEL FR L<YJ, Y, 700YU, YBNY1, YBNY2>
2	86-NST-001-010		PANEL FR R<YJ, Y, 700YU, YBNY1, YBNY2>
2	86-NST-012-010		PANEL FR R ST<YSTNC, YSTNY1>
3	86-NST-003-010		PANEL BA
4	86-NST-006-010		GRILL FRAME ASSY
5	86-NST-608-010		SPEAKER W 140<YBNY1, YBNY2, YSTNY1>
5	86-NST-608-010		SPEAKER W 140<Y, 700YU, YSTNC>
5	86-NST-602-010		SPEAKER W 140H<Y>
6	86-NST-604-010		SPEAKER T 60<YJ, Y, 700YU, YSTNC>
6	86-NST-610-010		SPEAKER T 60<YBNY1, YBNY2, YSTNY1>
7	82-NSE-610-010		CERAMIC
8	83-NSB-009-010		DIAPHRAGM
9	83-096-614-010		SPEAKER CORD

SX-NAV90 / NAV900<90YJ, 90Y, 90YST, 900YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSR-005-010		GRILL FRAME ASSY R
2	86-NSR-006-010		GRILL FRAME ASSY L
3	86-NSR-009-010		PANEL FR R<EXCEPT YST>
3	86-NSR-016-010		PANEL FR R ST<YST>
4	86-NSR-010-010		PANEL FR L<EXCEPT YST>
4	86-NSR-017-010		PANEL FR L ST<YST>
5	86-NSR-602-010		SPEAKER W 140 R<EXCEPT Y, YST>
5	86-NSR-606-010		SPEAKER W 140<Y, YST>
6	86-NSR-604-010		SPEAKER TW 60 H
7	83-096-614-010		SPEAKER CORD
8	82-NSR-610-010		CERAMIC

SX-NAV80 / NAV800 / NM820<80YJBNC, 80YL, 80YBNC, 800YUBNC, 80YST, 800YUBNA, 820YJTNL, 820YTNL, 80YJ7, 80YBN, 80YJBNC, 80YABNT, 80YABNM, 80B, 820YJBNL, 820B>

SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSR-009-010	-	PANEL FR 80 R<EXCEPT YST, 820YJTNL, 820YTNL, 820YJBNL, 820B>
1	86-NSR-011-010	-	PANEL FR ST 80 R<YST>
2	86-NSR-010-010	-	PANEL FR 80 L<EXCEPT YST, 820YJTNL, 820YTNL, 820YJBNL, 820B>
2	86-NSR-012-010	-	PANEL FR ST 80 L<YST>
3	86-NSR-005-010	-	GRILL FRAME ASSY R<EXCEPT 820YJBNL, 820B>
4	86-NSR-006-010	-	GRILL FRAME ASSY L<EXCEPT 820YJBNL, 820B>
5	86-NSR-606-010	-	SPEAKER W 140<YBNC, 800YUBNC, YST, 800YUBNA>
5	86-NSR-602-010	-	SPEAKER W 140 H<YJBNC, YL, YJ7, YBN, YJBNC, YABNT, YABNM>
5	86-NSR-600-010	-	SPEAKER W 160<820YJTNL, 820YTNL, 820YJBNL, 820B>
6	86-NSR-604-010	-	SPEAKER TW 25<820YJTNL, 820YTNL, 820YJBNL, 820B>
6	86-NSR-604-010	-	SPEAKER TW 60<EXCEPT 820YJTNL, 820YTNL, 820YJBNL, 820B, 80B>
7	82-NSR-610-010	-	CERAMIC<EXCEPT 820YJTNL, 820YTNL, 820YJBNL, 820B>
83-096-614-010	-	-	SPEAKER CORD<EXCEPT 820YJTNL, 820YTNL, 820YJBNL, 820B>
9	86-NSR-004-010	-	GRILL FRAME ASSY<820YJTNL, 820YTNL, 820YJBNL, 820B>

SX-CR423<YJ, Y, YST>

NOTE : This SX-CR423 speaker contains SX-C400(center speaker) and SX-R230(rear speaker).
Refer to page 8 and 10 when servicing.

SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSX-001-010		PANEL FR(R230)<YJ, Y>
1	85-NSX-009-010		PANEL FR(R230)<YST>
2	85-NSX-002-010		PANEL REAR(R230)<YJ, Y>
2	85-NSX-010-010		PANEL REAR(R230)<YST>
3	85-NSX-005-010		GRILL FRAME ASSY(R230)
4	85-NSX-601-010		SPEAKER(R230)
5	81-VSA-010-010		SPEAKER CORD(R230)
6	85-NSX-001-010		PANEL FR(C400)<YJ, Y>
6	85-NSX-011-010		PANEL FR ST(C400)<YST>
7	85-NSX-002-010		PANEL REAR(C400)<YJ, Y>
7	85-NSX-012-010		PANEL REAR ST(C400)<YST>
8	85-NSX-010-010		GRILL FRAME ASSY(C400)
9	85-NSX-602-010		SPEAKER(C400)
10	83-NSM-010-010		SPEAKER CORD(C400)

SX-R230<YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSX-001-010		PANEL FR
2	85-NSX-002-010		PANEL REAR
3	81-VSA-010-010		SPEAKER CORD
4	85-NSX-005-010		GRILL FRAME ASSY
5	85-NSX-601-010		SPEAKER
6	85-NSX-901-010		IB YU(ESP)

SX-R240<Y, YJ> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSV-001-010		PANEL FR
2	85-NSX-005-010		GRILL FRAME ASSY
3	85-NEL-601-010		SPEAKER
4	81-VSA-010-010		SPEAKER CORD

SX-SR250 / R260<Y, YJ, YL, 260YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-NSX-011-010		PANEL FR R260<260YU>	5	83-NSX-008-010		PANEL TW ASSY
2	83-NSX-004-010		GRILL FRAME ASSY	6	83-NSX-901-010		IB Y<EXCEPT 260YU>
3	83-VS2-601-010		SPEAKER<EXCEPT 260YU>	6	83-NSX-902-010		IB YU(260)<260YU>
3	83-NSX-601-010		SPEAKER<260YU>				
4	81-VSA-010-010		SPEAKER CORD				

SX-SLM6<YT, YJ> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-CP2-003-010		GRILL FRAME ASSY
2	86-CP2-602-010		SPEAKER W
3	86-CP2-604-010		SPEAKER T

**SX-SL300<B, W, D, G>
SPEAKER PARTS LIST**

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-CL7-112-010		PANEL FR<B,D>	3	86-CL7-117-010		NET W<W>
1	86-CL7-118-010		PANEL FR W<W>	4	86-CL7-119-010		SPEAKER
1	86-CL7-220-010		PANEL FR G<G>	5	86-CL7-231-010		SPEAKER CODE
2	86-CL7-113-010		GRILL FRAME	6	86-NS5-012-010		BADGE 35
3	86-CL7-118-010		NET<B,D,G>	7	86-CL7-232-010		CERAMIC

**SX-SL600 / SLAP1MK3<Y, YJ, YL, YG, AP1MK3Y>
SPEAKER PARTS LIST**

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-CP6-001-010		PANEL FR R<EXCEPT YG,YL>	2	86-CP6-006-010		PANEL FR L L<YL>
1	86-CP6-003-010		PANEL FR R G<YG>	3	86-CP6-602-010		SPEAKER WOOFER
1	86-CP6-005-010		PANEL FR R L<YL>	4	86-CP6-603-010		SPEAKER TWEETER
2	86-CP6-002-010		PANEL FR L<EXCEPT YG,YL>				
2	86-CP6-004-010		PANEL FR L G<YG>				

**SX-SL800<Y, YJ>
SPEAKER PARTS LIST**

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-CP5-001-010		PANEL FR R	5	86-CP5-602-010		SPEAKER W
2	86-CP5-002-010		PANEL FR L	7	85-CP5-604-010		SPEAKER TW
3	86-CP5-005-010		GRILL FRAME ASSY R	8	83-096-614-010		SPEAKER CORD
4	86-CP5-006-010		GRILL FRAME ASSY L	9	85-CP5-611-010		SPEAKER CORD Y/B
5	86-CP5-604-010		SPEAKER MID				

**SX-C300<Y, YJ, YU>
SPEAKER PARTS LIST**

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-NSM-007-010		GRILL FRAME ASSY
2	83-NSM-602-010		SPEAKER
3	83-NSM-010-010		SPEAKER CORD
4	83-NSM-901-010		TB Y<YJ,Y>
4	83-NSM-902-010		TB YU<YU>

SX-C400<YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-001-010		PANEL FR
2	85-NSY-002-010		PANEL REAR
3	85-NSY-010-010		GRILL FRAME ASSY
4	85-NSY-602-010		SPEAKER
6	83-NSM-010-010		SPEAKER CORD
7	85-NSY-901-010		IB YU(ESF)-400

SX-R210<Y, YJ,YU, YHS> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-VS3-001-010		CABI FRONT
2	83-VS3-004-010		GRILL FRAME ASSY
3	83-VS3-601-010		SPEAKER
4	81-VSA-010-010		SPEAKER CORD
5	81-VSA-009-010		CORD BUSH
6	87-351-099-010		SCREW VT+3-15
7	87-342-096-010		SCREW VT+3-10
8	87-302-124-010		SW+3.1-25
9	83-VS3-904-010		IB HS<YHS>
9	83-VS3-902-010		IB U<YU>
9	83-VS3-901-010		IB, Y<EXCEPT YU, YHS>

SX-R220 / SR220<Y, YJ, YJ1, YL, YL1, YU, SR220YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-VS3-004-010		GRILL FRAME ASSY
2	85-NSL-601-010		SPEAKER
3	83-VS3-901-110		IB Y<Y, YJ, YL>
3	83-VS3-902-110		IB U<YU>
3	85-NSL-902-010		IB Y<YJ1, YL1>
3	85-NSL-903-010		IB U<SR220YU>

SX-Z240 / Z24<Y, YL, YBNY1, YBNC, Z24YUBNC, Z24YUBNA> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MSU-001-010		PANEL FR<EXCEPT YBNY1, Z24YUBNA>	3	85-MS5-611-010		SPEAKER W<YBNY1>
2	86-MSU-002-010		GRILL FRAME ASSY<EXCEPT YBNY1, Z24YUBNA>	4	85-MS5-613-010		SPEAKER TW<YBNY1>
2	86-MSU-011-010		GRILL FRAME ASSY<Z24YUBNA>	4	85-MS5-605-010		SPEAKER TW<EXCEPT YBNY1>
2	85-MS5-017-010		GRILL FRAME ASSY R<YBNY1>	5	85-MS5-607-010		CERAMIC<EXCEPT YBNY1, Z24YUBNA>
3	85-MS5-603-010		SPEAKER W<EXCEPT YBNY1>				

SX-Z260 / Z26<Y, Z26YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MSR-003-010		PANEL FR R<Z26YU>	4	86-VSS-601-010		SPEAKER W<Y>
2	86-MSR-004-010		PANEL FR L<Z26YU>	5	84-NS6-604-010		SPEAKER TW<Z26YU>
3	86-MSR-010-010		GRILL FRAME ASSY<Z26YU>	5	86-VSR-603-010		SPEAKER TW<Y>
4	86-MSR-601-010		SPEAKER W<Z26YU>	6	86-VSR-605-010		CERAMIC<Y>

SX-Z270 / Z27<YBNL, YBNY1, Z27YU> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MSN-001-010		PANEL FR R<EXCEPT YBNY1>	5	86-VS2-601-010		SPEAKER W<EXCEPT YBNY1>
2	86-MSN-002-010		PANEL FR L<EXCEPT YBNY1>	6	84-VS3-603-010		SPEAKER TW<EXCEPT YBNY1>
3	86-MSP-001-010		PANEL TW R<EXCEPT YBNY1>	6	86-MSR-603-010		SPEAKER TW<YBNY1>
4	86-MSP-002-010		PANEL TW L<EXCEPT YBNY1>	7	86-MSR-604-010		CERAMIC<YBNY1>
5	86-MSR-601-010		SPEAKER W<YBNY1>	8	86-MSU-004-010		GRILL FRAME ASSY<EXCEPT YBNY1>
				8	86-MSP-010-010		GRILL FRAME ASSY<YBNY1>

SX-Z280<Y, YJ> SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MSN-001-010		PANEL FR R<EXCEPT Y>	4	86-VSP-601-010		SPEAKER W 160<Y>
2	86-MSN-002-010		PANEL FR L<EXCEPT Y>	5	86-VSR-603-010		SPEAKER T 60<Y>
3	86-MSN-004-010		GRILL FRAME ASSY<EXCEPT Y>	5	84-VS3-603-010		SPEAKER TW<EXCEPT Y>
3	86-MSP-010-010		GRILL FRAME ASSY<Y>	6	86-VSR-605-010		CERAMIC<Y>
4	86-VS2-601-010		SPEAKER W<EXCEPT Y>				

SX-Z290<YJ, YL, YJ7>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MSN-001-010		PANEL FR R<EXCEPT YJ7>	4	86-MSN-004-010		GRILL FRAME ASSY
1	86-MSN-013-010		PANEL FR ST R<YJ7>	5	86-MSF-602-010		SPEAKER W YJ<EXCEPT YL>
2	86-MSN-002-010		PANEL FR L<EXCEPT YJ7>	5	86-MSF-601-010		SPEAKER W YL<YL>
2	86-MSN-014-010		PANEL FR ST L<YJ7>	6	86-MS6-604-010		SPEAKER TW
3	86-MSN-003-010		PANEL BA				

SX-FZ2600<Y, YJ, YL, YJST>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MS5-001-010		PANEL FR<EXCEPT YJST>	4	86-MS5-609-010		SPEAKER W YL<YL>
1	86-MS5-012-010		PANEL FR ST<YJST>	5	86-MS5-605-010		SPEAKER TW
2	86-MS5-019-010		HLDR SQ ASSY	6	86-MS5-607-010		SPEAKER
3	86-MS5-017-010		GRILL FRAME ASSY	7	86-MS3-611-010		SPEAKER CORD ASSY
4	86-MS5-603-010		SPEAKER W YB<EXCEPT YL>	8	86-MS3-610-010		SPEAKER CORD ASSY Y/B

SX-FZ2700<Y, YJ, YL, YJST>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-VS2-001-010		PANEL FR<EXCEPT YJST>	5	86-MS5-608-010		SPEAKER TW
2	86-VS2-002-010		PANEL BA	6	86-MS5-610-010		SPEAKER
3	86-VS2-008-010		GRILL FRAME ASSY				
4	86-VS2-603-010		SPEAKER W<EXCEPT Y>				
4	86-VS2-605-010		SPEAKER W<Y>				

SX-AZ2800<Y, YJ, YL, YJ7, YJST, YJ7ST>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MS3-001-010		PANEL FR R<EXCEPT YJST, YJ7ST>	8	86-MS4-606-010		SPEAKER
1	86-MS3-023-010		PANEL FR ST R<YJST, YJ7ST>	9	86-MS4-608-010		SPEAKER TW
2	86-MS3-002-010		PANEL FR L<EXCEPT YJST, YJ7ST>	10	86-MS6-611-010		SPEAKER CORD Y/B
2	86-MS3-024-010		PANEL FR ST L<YJST, YJ7ST>	11	86-MS5-613-010		SPEAKER CORD ASSY
3	86-MS3-025-010		GRILL FRAME ASSY R				
4	86-MS3-026-010		GRILL FRAME ASSY L				
5	86-MS3-011-010		PANEL TW R				
6	86-MS3-012-010		PANEL TW L				
6	86-MS3-601-010		SPEAKER W				
7	86-MS4-604-010		SPEAKER MID				

SX-AZ3450<Y>

SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MS3-025-010		GRILL FRAME ASSY R	6	86-NS4-604-010		SPEAKER MID
2	86-MS3-026-010		GRILL FRAME ASSY L	7	86-V54-606-010		SPEAKER
3	86-MS3-001-010		PANEL FR R	8	86-NS4-608-010		SPEAKER TW
4	86-MS3-002-010		PANEL FR L				
5	86-NS3-601-010		SPEAKER W				

SX-Z4400<YBNY, YBNY1, YJBNL>

SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-V54-011-010		GRILL FRAME ASSY<YBNY, YBNY1>	5	86-VSR-603-010		SPEAKER TW<YBNY>
1	85-V54-006-010		GRILL FRAME ASSY<YJBNL>	5	84-V53-603-010		SPEAKER TW<YJBNL>
2	85-V54-001-010		PANEL FR R<YJBNL>	6	83-096-614-010		SPEAKER CORD<YJBNL>
3	85-V54-004-010		PANEL FR L<YJBNL>	7	86-VSR-605-010		CERAMIC<YBNY>
4	85-V54-601-010		SPEAKER W<YBNY1>	7	85-V54-605-010		CERAMIC<YBNY1>
4	86-VSR-602-010		SPEAKER W<YJBNL, YBNY>				
4	86-VSR-602-010		SPEAKER W<YBNY>				
5	85-V54-603-010		SPEAKER T<YBNY1>				

SX-Z7400<Y>

SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-VSM-601-010		SPEAKER W
2	86-MSR-603-010		SPEAKER TW
3	86-MSR-604-010		CERAMIC
4	86-MSR-010-010		GRILLE FRAM ASSY

SX-Z9400<Y, YJ, YL>

SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-VS1-002-010		PANEL W	6	83-149-611-010		TERMINAL
2	86-VS1-003-010		PANEL TW ASSY	7	81-672-612-010		SPEAKER CORD
3	86-VS1-009-010		GRILL FRAME ASSY				
4	86-VS1-602-010		SPEAKER WOOFER				
5	84-V53-603-010		SPEAKER TWEETER				

SX-NV200 / NV2000<Y, YJ, YL, NV2000YU>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-CPC-003-010		GRILL FRAME ASSY R
2	86-CPC-006-010		GRILL FRAME ASSY L
3	86-CPC-605-010		SPEAKER

SX-NV210 / NV2100<YBNC, YBNC1, YJ, YL, NV2100YUBNC, NV2100YUBNC1>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSZ-001-010		PANEL FR<EXCEPT YBNC>	3	86-NSZ-602-010		SPEAKER, CERA 14<EXCEPT YBNC>
2	86-NSZ-601-010		SPEAKER, 120<NV2100YUBNC>	4	86-NSZ-003-010		NET<EXCEPT YBNC>
2	86-NSZ-603-010		SPEAKER, 120H<YBNC1>	5	86-NSZ-610-010		CODE, SP
2	86-NSZ-605-010		SPEAKER, 120D<NV2100YUBNC1>				
2	86-NSZ-607-010		SPEAKER, 120DH<YJ, YL, YBNC>				

SX-NAVH8 / NAVH80<Y, YJ, YT, TN, T1, T2, 80YU>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSM-001-010		PANEL FR
2	86-NSM-004-010		GRILL FRAME ASSY
3	83-096-614-010		SPEAKER CORD
4	86-NSZ-602-010		SPEAKER W 140
5	83-NSZ-603-010		SPEAKER TW 60

SX-NAVH9 / NAVH90 / NM9<Y, YJ, YL, YT, YJ7, 90YU, NM9YT>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSM-001-010		PANEL FR<EXCEPT NM9YT>	5	86-NSM-604-010		SPEAKER TW 25<NM9YT>
2	86-NSM-004-010		GRILL FRAME ASSY	5	83-MS2-603-010		SPEAKER TW 60<EXCEPT NM9YT>
3	83-096-614-010		SPEAKER CORD	6	86-NSM-610-010		TERMINAL ASSY<EXCEPT NM9YT>
4	86-NSZ-602-010		SPEAKER W 140<EXCEPT NM9YT>	6	85-NSG-610-010		TERMINAL ASSY<NM9YT>
4	86-NSM-602-010		SPEAKER W 160<NM9YT>				

SX-ANH9 / ANH90<Y, YJ, YL, YJ7, ANH90YU>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS1-001-010		PANEL FR R
2	86-NS1-002-010		PANEL FR L
3	86-NS1-010-010		GRILL FRAME ASSY R
4	86-NS1-011-010		GRILL FRAME ASSY L
5	86-NS1-502-010		SPEAKER W 140H
6	86-NS4-604-010		SPEAKER M 80
7	86-NS4-606-010		SPEAKER S 80
8	86-NS4-608-010		SPEAKER T 50

SX-FNH8<YJ, YL>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS2-001-010		PANEL FR
2	86-NS2-016-010		PANEL TW ASSY
3	86-NS2-006-010		GRILL FRAME ASSY
4	86-NS1-602-010		SPEAKER W 140 H
5	83-NS5-608-010		SPEAKER TW
6	83-NS5-610-010		SPEAKER

SX-N340 / N410G / N3150 / N3200<340YB, 340YBNC, 340YJBNC, 340YJABN, 410GB, 3150YU, 3200YU>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-NS7-002-010		PANEL FR L<3200YU, 340YBNC, 340YJABN, 3150YU>
1	82-NS7-007-010		PANEL FR L H<340YBNC, 340YBNC>
1	82-NS7-017-010		PANEL FR L 410<410GB>
2	82-NS7-003-010		PANEL FR R<3200YU, 340YBNC, 340YJABN, 3150YU>
2	82-NS7-008-010		PANEL FR R H<340YBNC, 340YBNC>
2	82-NS7-018-010		PANEL FR R 410<410GB>
3	82-NS7-014-010		GRILL FRAME ASSY L
4	82-NS1-015-010		GRILL FRAME ASSY R
5	83-NS2-602-010		SPEAKER WOOFER
6	83-NS2-604-010		SPEAKER TWEETER
7	81-MSE-610-010		CERAMIC
8	83-096-614-010		SPEAKER CORD

SX-FNF7 / FNF77<Y, YJ, YL, YJ7, YJST, FNF77YU>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSA-001-010		PANEL FR <EXCEPT YJST>	4	86-NSA-608-010		SPEAKER, W 160H<Y, YU>
1	86-NSA-013-010		PANEL FR ST<YJST>	5	86-NSA-604-010		SPEAKER, T 80<EXCEPT Y, YU>
2	86-NSA-003-010		GRILL FRAME ASSY	5	86-NSA-610-010		SPEAKER, T 60H<Y, YU>
3	86-NSA-007-010		PANEL, TW	6	86-NSA-606-010		SPEAKER, B0
4	86-NSA-602-010		SPEAKER, W 160<EXCEPT Y, YU>	7	86-NSA-611-010		SPEAKER CODE

SX-Z2890<YJ>
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-MSD-002-010		GRILL, ASSY
2	85-MSD-005-010		PANEL, W
3	85-MSD-006-010		PANEL, M
4	85-MSD-007-010		PANEL, T ASSY
5	85-MSD-601-010		SPEAKER, WOOFER
6	83-NS2-603-010		SPEAKER, TWEETER
7	81-672-612-010		SPEAKER CODE

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
	SERGE SUPPRESSOR
	CAP, CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CJ	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
	ARM, SHAFT
	GUIDE, SHAFT
	STRAP
	S-SCREW
	HINGE
	S-SCREW
	SCREW, SERPART